

BOARD OF LAND AND NATURAL RESOURCES

other interests therein and exercise such powers of disposition thereof as may be authorized by law. The department shall also manage and administer the state parks, historic sites, forest reserves, aquatic life and aquaculture programs, aquatic life sanctuaries, The department of land and natural resources shall be headed by an executive board to be known as the board of land and natural public fishing areas, wildlife, wildlife sanctuaries, game management areas, public hunting areas, natural area reserves, and other funcresources. The department shall manage, administer, and exercise control over public lands, the water resources, and minerals and all tions assigned by law.

-Hawaii Revised Statutes Section 171-3

Left to right:



Roland Higashi (Hawaii) J. Douglas Ing

Susumu Ono, Chairman (At Large)

Leonard H. Zalopany (Kauai)

Moses W. Kealoha

John Y. Arisumi

(At Large)





STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621

November 28, 1986

Honorable George R. Ariyoshi Governor of Hawaii State Capitol Honolulu, Hawaii

Dear Governor Ariyoshi:

Our Annual Report for the Fiscal Year (F.Y.) 1985-1986 is hereby submitted to you. We are deeply appreciative of your guidance and the support of the Legislature for making our many accomplishments possible.

The Department collected and transferred over \$13.6 million to the State General Fund. This was over \$2.6 million more than the amount collected in the F.Y. 1984-1985. The major sources of revenue were State land lease rental and water licenses, conveyance tax, recording of legal instruments, and rental and concession income in State parks.

Efforts were initiated to computerize the Land Court System in order to reduce the processing time to about 10 days, and to remedy the critical space problem in storing documents. This major undertaking was made possible through your support and that of the Legislature.

There were two noteworthy public land dispositions: 1) direct lease for 65 years to 33 descendants of Ho'opuloa fishing village destroyed by a lava flow on April 18, 1926, at Milolii, Hawaii; and 2) public auction lease for 20 years for 114 recreational houselots at Kokee, Kauai.

A feasibility report for a proposed desalting plant was completed and a consultant will be selected to prepare construction plans and specifications for a 1.0 million gallons per day plant in the Pearl Harbor Basin.

Finally, geothermal resource subzones were designated for about 4,100 acres on Maui and about 22,000 acres on Hawaii. Land exchange between the State and Campbell Estate was effectuated in order to place a suitable area into the geothermal resource subzone and to protect an appropriate site for a natural area reserve

The term of Mr. Roland Higashi, Hawaii Board Member, expired. The Department owes Mr. Higashi a deep and abiding gratitude for his dedicated public service for over 8 years. Mr. Higashi was succeeded by Mr. Herbert Arata.

Sincerely,

Chairman and Member Board of Land and Natural Resources SUSUMU ONO, CHAIRMAN
BOARD OF LAND & NATURAL RESOURCES

EDGAR A. HAMASU

DIVISIONS:

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

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DEPARTMENT OF LAND AND NATURAL RESOURCES



Standing: Susumu Ono, Chairperson, Charles Neumann, Ralston Nagata, Edgar Hamasu, Deputy, Henry Sakuda, Noah Pekelo, Albert Ching, Melvin Young Seated: Roger Evans, Libert Landgraf, Mike Shimabukuro, Robert Lee, Anne Furuuchi, John Corbin

James J. Detor Administrator, Division of Land Management Libert K. Landgraf Administrator, Division of Forestry and Wildlife
Henry M. Sakuda Administrator, Division of Aquatic Resources
Manabu TagomoriDivision of Water and Land Development
Ralston Nagata Administrator, Division of State Parks, Outdoor Recreation and Historic Sites
Maurice M. MatsuzakiChief, Division of Conservation



OFFICE OF THE CHAIRMAN

ADMINISTRATIVE SERVICES OFFICE

The Administrative Services Office provides general support, internal management, and fiscal services to the Chairperson and Members of the Board, and to the staff and operating units of the Department. It provides specialized liaison services with the Department of Budget and Finance, the Department of Accounting and General Services, the Department of Planning and Economic Development, and federal agencies. This Office also coordinates the preparation and implementation of the Departmental operating and capital improvement project budgets. It provides internal audit functions by reviewing lessees' accounting records to ensure compliance with rental terms specified in the lease agreements. Finally, this Office coordinates the electronic data processing needs of the Department and assists the divisions and staff offices in the preparation of a plan for distributed information processing and information resource management (DIPIRM).

General Fund Revenues

The Department collected and transferred to the State General Fund revenues from various sources amounting to \$10,986,945 for the fiscal year ended June 30, 1985 and \$13,624,377 for the fiscal year ended June 30, 1986. Major revenue sources generated by the Department are shown below:

Source of Revenues	Amount 1985	Amount 1986
Lease and Rental of State		
	6,137,351	\$ 7,717,291
Conveyance Tax	1,862,363	1,955,196
Recording of Legal		
Instruments	1,323,191	1,562,372
Various Rentals and		
Concession Income in		
State Parks	816,603	1,000,351
Sale of Public Lands	180,537	734,892
Federal Indirect Cost		
Recoveries and Grants	130,522	180,683
Hunting and Fishing Licenses	134,303	191,216
Refunds and Reimbursements		
of Prior Year Expenditures		
and Vacation Credits from		
Other Agencies	179,180	67,884
Restoration of Fish and		
Wildlife	86,698	
Fines—State Conservation		
District Use and Other		
Public Land Violations	23,001	17,368
Sales of Forestry Products	31,895	88,883
Various Fees Relating to		
Public Land	18,582	25,028
Commercial Film Land		
Rentals	51,969	35,060
Fees—Conservation District		
Use Application and Public		
Hearing	8,100	6,450
Interest Earned on Time		
Certificates of Deposit		37,712
Interest on Delinquent		
Accounts		3,195
Indemnity for Damages	360	42
Sale of Confiscated		
Evidence and Other		
Equipment and Property	1,729	150
Others	561	604
	\$10,986,945	\$13,624,377

Native Hawaiian Rehabilitation Fund

As provided by the State Constitution, 30 percent of the State receipts derived from the leasing of cultivated sugarcane land and from water licenses was transferred to the Native Hawaiian Rehabilitation Fund. The amount transferred to the fund during the 1985-86 fiscal year was \$726,185. The total amount transferred to the fund since the 1978 constitutional amendment was \$6,067,567 as of June 30, 1986.

Office of Hawaiian Affairs Public Land Proceeds Fund

Act 273, Session Laws of Hawaii 1980, provides that 20 percent of all funds derived from the public land trust described in Section 10-3, Hawaii Revised Statutes, be transferred to the Office of Hawaiian Affairs (OHA). Funds are transferred on a quarterly basis. The amount transferred to OHA during the 1985-86 fiscal year was \$1,452,541. This includes \$1,375,361 from State land revenues and \$77,180 from State park concessions. The total transferred to OHA since the approval of Act 273, Session Laws of Hawaii 1980, amounted to \$8,365,563.

STATUS OF APPROPRIATION ACCOUNT BALANCES

FISCAL YEAR 1985-86

PROGRAM I.D. LNR	PROGRAM TITLE	FUND	APPROPRIATION BEGINNING BALANCE	TRANSFERS1/	DEPARTMENTAL RESTRICTION	NET APPROPRIATION	EXPENDITURES, CLAIMS AND CONTRACT ENCUMBRANCES	LAPSES ² /
101	PUBLIC LANDS MANAGEMENT	GENERAL	\$ 966,237	\$ 44,514	\$ 50,000	\$ 960,751	\$ 960,659	\$ 92
111	CONVEYANCES AND RECORDING	GENERAL	885,655	57,216	20,000	922,871	922,667	204
141	WATER DEVELOPMENT AND IRRIGATION SERVICES	GENERAL SPECIAL	571,233 327,000 898,233	18,540 125 18,665	16,100 -0- 16,100	573,673 327,125 900,798	573,628 320,194 893,822	6,931 6,976
153	COMMERCIAL FISHERY AND AQUACULTURE	GENERAL FEDERAL	1,669,919 160,590 1,830,509	37,664 -0- 37,664	209,143 -0- 209,143	1,498,440 160,590 1,659,030	1,498,432 160,590 1,659,022	-0- 8
172	FORESTRY - PRODUCTS DEVELOPMENT	GENERAL FEDERAL	817,479 104.833 922,312	12,584 -0- 12,584	66,980 -0- 66,980	763,083 104,833 867,916	750,288 104,833 855,121	12,795 -0- 12,795
401	AQUATIC RESOURCES	GENERAL FEDERAL	387,047 58,537 445,584	22,518 -0- 22,518	43,500 -0- 43,500	366,065 58,537 424,602	365,961 58,537 424,498	104 -0- 104
402	FORESTS AND WILDLIFE RESOURCES	GENERAL GENERAL - FIRE	1,427,647	57,255	-0-	1,484,902	1,462,654	22,248
	RESOURCES	CONTINGENCY FEDERAL	250,000 334,360 2,012,007	-0- -0- 57,255	-0- -0- -0-	250,000 334,360 2,069,262	250,000 334,360 2,047,014	-0- -0- 22,248
403	MINERAL RESOURCES	GENERAL	111,266	3,396	4,500	110,162	110,039	123
404	WATER RESOURCES	GENERAL	920,970	20,394	30,500	910,864	910,754	110
405	CONSERVATION AND RESOURCES ENFORCEMENT	GENERAL FEDERAL	1,877,707 26,240 1,903,947	93,101 -0- 93,101	95,438 -0- 95,438	1,875,370 26,240 1,901,610	1,842,754 26,240 1,868,994	32,616 -0- 32,616
801	HISTORICAL AND ARCHAEOLOGICAL PLACES	GENERAL	915,114	63,940	10,815	968,239	959,453	8,786
804	FOREST RECREATION	GENERAL FEDERAL	775,075 266,160 1,041,235	37,225 -0- 37,225	33,916 -0- 33,916	778,384 266,160 1,044,544	775,977 266,160 1,042,137	2,407 -0- 2,407
805	AQUATIC RECREATION	GENERAL FEDERAL	153,845 254,152 407,997	11,664 -0- 11,664	31,245 -0 31,245	134,264 254,152 388,416	134,189 240,106 374,295	75 14,046 14,121
806	PARKS RECREATION	GENERAL	2,750,439	78,412	210,024	2,618,827	2,604,325	14,502
809	GENERAL ADMINISTRATION FO CULTURE AND RECREATION	R GENERAL FEDERAL	467,536 563,797 1,031,333	33,829 627 34,456	-0- -0- -0-	501,365 564,424 1,065,789	501,365 564,424 1,065,789	-0- -0- -0-
810	PREVENTION OF NATURAL DISASTER	GENERAL	117,380	4,668	39,900	82,148	82,072	76
906	LNR - NATURAL PHYSICAL ENVIRONMENT	GENERAL FEDERAL	1,071,327 26,262 1,097,589	159,183 681 159, 4	-0+ -0- -0-	1,230,510 26,943 1,257,453	1,230,446 15,888 1,246,334	11,055 11,119
	TOTAL GENERAL FUND		16,135,876	756,103	862,061	16,029,918	15,935,663	94,255
	TOTAL FEDERAL AND SPECIAL FUNDS		2,121,931	1,433	-0-	2,123,364	2,091,332	32,032
	GRAND TOTAL		\$18,257,807	\$757,536	\$862,061	\$18,153,282	\$18,026,995	\$126,287

^{1/}INCLUDES \$46,300 TRANSFERRED FROM THE DEPARTMENT OF THE ATTORNEY GENERAL FOR INTERNAL SECURITY SERVICES FOR THE IOLANI PALACE (LNR 801), \$104,300 TRANSFERRED FROM THE DEPARTMENT OF BUDGET AND FINANCE FOR DISTRIBUTED INFORMATION PROCESSING AND INFORMATION RESOURCE MANAGEMENT LUMP SUM PRIORITY FUNDS (LNR 906) AND COLLECTIVE BARGAINING APPROPRIATIONS TOTALING \$606,936.

PERSONNEL OFFICE

The Personnel Office maintains a comprehensive personnel program for the department. The staff provides supportive services to the Chairperson and to the seven operating divisions and five staff offices.

Major services include guidance and technical assistance in position classification, employee relations, and employee training and development. The Office also assists the divisions and staff offices in carrying out the collective bargaining contracts and the grievance process. The Office maintains a centralized system for processing, recording, reporting, and filing the personnel transactions and records of all employees. The Personnel Office prepares and makes recommendations for the adoption of personnel policies and procedures within the department. Finally, the Office works with the divisions and staff offices in developing and updating the organization plans.

^{2/}INCLUDES \$93,219 LAPSED FOR WORKERS' COMPENSATION BENEFITS PAID IN LIEU OF GENERAL FUND SALARY COSTS AS MANDATED BY ACT 300, SLH 1985, SECTION 211.

SUMMARY	OF	PERSONNEL	TRANSACTIONS

Fiscal Year 1985-1986

SAL!		
Accessions		326
New Hires - Permanent	31	
- Inter-Agency Transfer	7	
- Inter-Agency Appointment (Probational)	1	
Page 4 - Inter-Agency Promotion	3	
- Inter-Agency Demotion (Voluntary)	1	
New Hires - Limited Term Appointment	2	
- Temporary Appointment Outside of List	4	
- Emergency	113	
- Provisional	0	
- Exempt	164	
Separations		323
Resignation & Transfer (Permanent Employees)	18	
Resignation & Termination (Temporary Employees)	286	
Dismissal/Termination	4	
Retirement	15	
Termination (Death)	0	
Other Personnel Action		2213
Promotion	35	
Voluntary Demotion	2	
Demotion (Disciplinary)	0	
Demotion (Physical Disability)	1	
Conversion to Probational Appointment	1	
Conversion to Permanent Appointment	72	
Conversion to Temporary Appointment Outside of List	3	
Conversion to Limited Term Appointment	6	
Reallocation	16	
Repricing	20	
Change in Title	0	
Limited Term Promotion	5	

Other Personnel Actions (cont

ther Personnel Actions (cont.)	
Return to Pormer or Similar Position	8
Intra-Agency Transfer	10
Intra-Agency Appointment	9
Temporary Assignment	465
Extension - Limited Term Appointment	15
Extension - Exempt Appointment	10
Extension - Probational Appointment	3
Extension - Temporary Appointment Outside of List	13
Extension - Temporary Reallocation	1
Extension - Emergency Appointment	100
Leave-Without-Pay (Child Care)	2
Leave-Without-Pay (Industrial Injury)	51
Leave-Without-Pay (Others)	87
Authorized Leave-Without-Compensation	6
Extension - Leave-Without Pay	2
Return to Duty	149
Unauthorized Absence	16
Suspension	1
Change in Social Security Number	0
Name Change	2
Change in Record - Bargaining Unit	1
Change in Full-Time Equivalent Percentage	0
Change in New Salary Schedule	436
	55
Pay Adjustment Employment & Pay Rate Continued	9
Pay Adjustment While on Leave Without Pay	2
	231
Hazard Pay Differential	231
Expiration - Hazard Pay Differential	119
Correction	18
Cancellation	10

NOTE: Additional categories of personnel action reported this year.

FILLED POSITIONS 1/ JUNE 30, 1986

Division	Hawaii	Oahu	Kauai	Maui	Molokai/ Lanai	TOTAL
Administration & Staff	0	42	0	0	0	42
Conveyances	0	37	0	0	. 0	37
Aquatic Resources	1	37	1	1	1	41
Conservation & Resources Enforcement	15	23	10	8	5	61
Forestry & Wildlife	41	30	19	18	4	112
Land Management	5	26	2	3	0	36
State Parks	32	87	19	11	1	150
Water & Land Development	5	39	1	0	4	49
TOTAL	99	321	52	41	15	528

^{1/} All full-time employees except student hires. Includes project funded and exempt employees.

NATURAL AREA RESERVES SYSTEM

As mandated by Chapter 195, Hawaii Revised Statutes, Natural Area Reserves preserve and protect in perpetuity unique and representative samples of Hawaii's natural environment. After millions of years of development in an isolated mid-ocean environment, nearly all of Hawaii's native plants and animals live nowhere else in the world. This unique natural resource cannot be created again if lost. This is Hawaii's natural heritage to be passed on to future generations. Besides the heritage value, indigenous plants and animals have aesthetic, educational and scientific values.

Reserve Use

Everything within a Natural Area Reserve—floral, faunal, geological or artifact—is protected. The one exception is the hunting of game (nonnative) mammals and birds, which is permitted when performed in accordance with hunting rules of the Division of Forestry and Wildlife. Use of the reserves is restricted to non-destructive passive activities, such as walking, photography and nature study. Other types of use, some of which may be manipulative or consumptive to some degree, require a special-use permit. The permit must be approved by an 11-member Natural Area Reserves System Commission. It is somewhat limited to educational, scientific and management projects. Chapter 209 of Title 13, Administrative Rules, regulates the use of the reserves.

Management

Management of the reserves system is guided by a policy adopted in 1984. A primary objective of management is to prevent degradation of the indigenous resource by controlling and eradicating nonnative plant infestations. An essential step toward meeting this management objective is a detailed vegetation survey.

Surveys. Funding was available in fiscal year 1985-86 for a comprehensive vegetation survey of the Mt. Kaala and Pahole reserves, both located on Oahu. The purpose of the survey was to determine the number and distribution of the nonnative plants and to make an inventory of the native plant species. The survey provides the necessary data for developing site-specific programs for the control and removal of the nonnative plant infestations. It also provides the basis for monitoring of changes in natural area conditions. All of the 658 acres in the Pahole reserve and 30-acre summit plateau portion of the Mt. Kaala reserve were surveyed. The extensive field data gathered are being compiled into program reports.

Use Monitoring, Nonnative Plant Control. Periodic field inspections were made of various reserves to monitor public use and impact. Also, certain types of nonnative plant infestations were monitored after control or eradication measures had been taken. In August 1985, a clidemia patch of 87 plants was eradicated from the Hono O Na Pali reserve on Kauai. This nonnative infestation occurred next to the frequently used Na Pali Trail. A previous colony of clidemia plants at the same location was removed in July 1984 by Division of Forestry and Wildlife personnel.

In August and September of 1985, young clidemia plants were pulled out from an area just outside of the summit plateau section of the Mt. Kaala reserve at 4,000 feet elevation. Other weeds discovered during survey work on the Mt. Kaala summit and subsequently eliminated were waiawi (Psidium) that were in six colonies with a total of 47

plants; two widely separated individuals of koa haole (Leucaena); and two also widely separated plants of manuka

The Pahole survey revealed four fruiting populations of clidemia, two of which were along the Mokuleia Trail. The largest patch was made up of nearly 100 individuals growing in an area of about 20,000 square feet. All four populations were pulled out or cut to stump level.

These relatively light infestations were manageable by pulling or cutting with available field personnel. More established and widespread infestations, such as blackberry (Rubus) and pamakani (Eupatorium) at the Mt. Kaala summit, and silk oak (Grevillea), guava (Psidium) and Christmas berry (Schinus) at Pahole, will require not only greater manual labor involvement but also the appropriate use of herbicides.

The Reserves

Puu Alii

Hawaii's Natural Area Reserves System presently consists of 108,328 acres distributed among 18 reserves. Eight of the reserves are on Hawaii. Maui, Molokai, Oahu and Kauai have either two or three reserves. The most recent reserve is Kahaualea on Hawaii, the result of a land exchange in which the Wao Kele 'O Puna reserve area is now under private ownership and the Puna reserve no longer exists

Natural Area Reserve	Acres	Primary Feature
Hawaii		
Kahaualea	16,726	'Ohi'a wet forest.
Kipahoehoe	5,583	Mesic forest, 'ohi'a and koa wet forests.
Laupahoehoe	7,894	'Ohi'a wet forest.
Manuka	25,550	Dry and mesic forests, 'ohi'a wet forest.
Mauna Kea Ice Age	3,894	Geological: Ice Age and Lake Waiau.
Puu Makaala	12,106	'Ohi'a and koa wet forests.
Puu O Umi	10,182	'Ohi'a wet forest, montane bog, headwaters of six perennial streams.
Waiakea 1942 Lava Flow	640	Developing wet forest.
Maui		
Ahihi-Kinau	1,238 (land) 807 (water)	Anchialine pools, last lava flow on Maui, marine ecosystem.
Hanawi	7,500	'Ohi'a wet forest, cloud forest, alpine grassland.
West Maui	2 275	Pili grassland,
Kahakuloa Section	3,275	mesic forest, 'ohi'a
Honokowai Section	750	wet forests, cloud
Panaewa Section Lihau Section	1,717 960	forests, montane bogs, headwaters and upper reaches of four perennial streams.
Molokai		
Olokui	1,620	Mesic forest, wet shrub, and 'ohi'a wet forest.
		Wet forest.

1.330

Wet shrub and

'ohi'a wet forest.

12.464	Coastal dune ecosystem.
1,100	Mesic and cloud forests, montane bog.
658	Dry and mesic forests.
3,150	Mesic forest, 'ohi'a wet forest.
1,636	Dry and mesic forests.
	1,100 658 3,150

AQUACULTURE DEVELOPMENT PROGRAM

The Aquaculture Development Program (ADP) was established in 1977 to stimulate the growth of Hawaii's aquaculture industry. Support services focus primarily on the beginning aquaculturist, although considerable help is provided the existing farmer. In addition, as international aquaculture has increased in popularity and importance, ADP has expanded assistance to Hawaii-based consultants in locating business opportunities overseas. Indeed, Hawaii's reputation as a center of tropical aquaculture expertise brought a record number of foreign visitors to the ADP office in fiscal year (FY) 1985-86.

Growth of the Industry

Hawaii's aquaculture industry consists of two components: commercial production, and research, training and technology transfer (RT&TT). The 1985 total value of the industry increased to an estimated \$12.7 million, a 15% gain over 1984. RT&TT continued to dominate commercial production in value, but the gap narrowed. Product value was up 21% over 1984.

TNIDHETTOV	CTATUS	1984-1985
INDUSTRY	STATUS,	1704-1707

		1984		
County	Farms	Acres	Production (1,000s of pounds)	(1,000s of dollars)
Kauai Oahu Maui Big Island	5 23 5 14	34 369 26 45	45.6 332.2 26.5 36.9	244.8 1,831.0 97.4 126.5
TOTAL:	47	474	441.2	\$2,299.7
		1985		
County	Farms	Acres	Production (1,000s of pounds)	(1,000s of dollars)
Kauai Oahu Maui Big Island	6 24 6 12	35 333 43 54	34.6 485.4 29.5 33.4	193.9 2,255.2 134.9 196.5
TOTAL:	48	465	582.9	\$2,780.5

Source: Aquaculture Development Program survey.

The industry continued to diversify into the raising of additional species, and more farmers (14) were practicing "polyculture"—the growing of several cash crops together.

AQUACULTURED SPECIES

Species	Number of Farms Raising this Specie
Freshwater Prawns	20
Tilapia	12
Chinese Catfish	8
Marine Shrimp	5
Channel Catfish	5
Chinese Carp	4
Rainbow Trout	4
Ornamental Fish	4
American Bullfrog	3
Mullet	3
Microalgae	3
Baitfish	2
Seaweed (Ogo)	2
Abalone	1

Note: Many farms are now raising more than one species. Source: Aquaculture Development Program survey.



Sus Nakagawa checks his supply of young trout at his Stateleased Lokowaka Pond facility on the Big Island. ADP works closely with farmers like Sus in such areas as disease prevention and marketing.



FowlerCo is raising tilapia in intensive production at Kahuku, Oahu. More than 200,000 pounds of fish will be harvested from the one-acre site in a year. Richard Fowler, the owner, credits ADP with helping him get started.

Amorient Aquafarms, the State's largest freshwater prawn farm, cut prawn acreage drastically to concentrate on marine shrimp, but production of other species more than made up for the loss. This FY marked the first commercial sale of marine shrimp by two farms, and abalone and *Spirullina* algae by two others. By the end of this FY, for the first

time in the history of the industry, several aquacultured products (prawns, marine shrimp, red tilapia and ogo) were being produced in sufficient quantities to be regularly available to Hawaii consumers at the largest supermarket chains.

Program Activities

Aquaculture Development Program activities were focused in three areas: 1) planning, coordination and communication; 2) support services, including information collection and dissemination, species and site counseling, employment counseling, business planning assistance, seafood marketing and economics, permit assistance, and disease diagnosis and prevention; and 3) research and development to increase the profitability of existing aquafarms and develop new species and systems.

Planning, Coordination and Communication. ADP's 1978 report, Aquaculture Development for Hawaii, has served to guide program activities for the past eight years. During this FY, the report was being updated.

ADP staff worked with the University of Hawaii and the Oceanic Institute in planning for a regional aquaculture center in Hawaii. The new center will be established by the U.S. Department of Agriculture at the direction of

Congress.

ADP also provided input into other planning efforts. Staff assisted a Congressional Office of Technology Assessment study entitled, "Integrated Renewable Resource Management in U.S. Insular Areas;" planned and co-sponsored (with the University of Hawaii Sea Grant College Program) a series of technical workshops for farmers; and assisted the Western Council of State Legislatures in preparing an issue paper on aquaculture development in the Western Region. In addition, ADP assisted a planning workshop for the Federated States of Micronesia and provided comments to the National Research Council on a draft aquaculture report.



Steve Katase stands before his *nori* project at the Natural Energy Laboratory of Hawaii at Keahole Point on the Big Island. ADP works closely with aquaculture entrepreneurs in establishing their operations at the State facility.



Glenn Jensen of Cyanotech Corporation carries a package of freshly harvested and processed spirulina, a microalgae, from their operation at the Natural Energy Laboratory of Hawaii. ADP has assisted Cyanotech with their project.

ADP continued to play a key role in establishing commercial and experimental aquaculture projects at the State's Natural Energy Laboratory of Hawaii (NELH) at Keahole Point on the Big Island. Commercial facilities now in production include Hawaiian Abalone Farms, culturing abalone (and kelp), and Cyanotech Corporation, which is growing two species of valuable microalgae. Pilot demonstration projects involving the culture of nori (Porphyra) and Giant Clams are also underway. Formal approvals for a major American Lobster culture facility and an opihi demonstration project were granted, with groundbreaking for both scheduled for November, 1986. Staff assisted the State High Technology Development Corporation in preparing an Environmental Impact Statement and a marketing plan for the proposed Hawaii Ocean Science Technology (HOST) Park, which will provide sites for commercial mariculture projects.

ADP staff organized the first meeting of the Hawaii Aquaculture Advisory Council, which advises the Board of Land and Natural Resources on statewide aquaculture development. The Program will provide on-going staff support for this body. ADP was appointed to two University of Hawaii committees: the University of Hawaii Aquaculture Coordinating Committee and the Advisory Group of the Mariculture Research and Training Center.

Support Services. ADP responded to numerous requests for information, participated in seminars, conferences, and exhibitions, and worked closely with various members of the industry to satisfy permit problems, develop business proposals, secure financing, locate technical expertise, and find suitable sites for development.

ADP began formal planning for two important aquaculture conferences to be held in Hawaii: the Third International Conference on Warm-Water Aquaculture (cosponsored by Brigham Young University-Hawaii and scheduled for 1987), and the World Aquaculture Society (WAS) conference scheduled for Honolulu in 1988.

APD assisted numerous visitors from overseas on matters involving: 1) investing in Hawaii, 2) availability of consulting services, and 3) training of technicians at local aquaculture facilities. Staff aided the American Soybean Association in planning tours for feedmill executives from Latin America and Japan. These visits are expected to result in important exchanges of technical information.

ADP's aquaculture veterinarian made 60 trips into the field to advise farmers on methods of disease prevention and control, and assisted the Department of Agriculture with the importation of aquatic species. ADP technicians received 305 submissions for laboratory analysis to detect

possible diseases.

Research, Development and Demonstration. The program funded projects aimed at lowering feed costs and increasing production levels for freshwater prawns, marine shrimp and Rainbow trout. Funds were also provided for studies involving various commercial production systems and techniques. For example, polyculture offers excellent opportunities for the more efficient utilization of limited freshwater resources. Studies were initiated to determine the feasibility of polyculturing oysters and shrimp, as well as carp and prawns. In addition, ADP matched funding from the University of Arizona to prepare a Handbook of Normal Marine Shrimp Histology and continue a project to identify worldwide sources of disease-free marine shrimp broodstock.

Notable achievements were made in the development of mahimahi culture. Investigations on the effects of water quality, diet, growth promoters, and feed selection by larval and juvenile mahimahi have reduced the number of mortalities and significantly advanced the commercial potential of mahimahi culture. Advances were also made in developing methodologies utilizing multi-species macroalgal systems to remove pollutants from aquaculture effluent waters to lessen possible adverse effects on the environment.

OFFICE OF CONSERVATION AND ENVIRONMENTAL AFFAIRS

Reorganization

The Planning Office was reorganized into the Office of Conservation & Environmental Affairs (OCEA) in fiscal

year (FY) 1985-86. The major functions remain the same. It is responsible for the administration of land uses within the Conservation District. This office also coordinates the review of film permits, environmental impact statements and State land use district amendments.

Conservation District Use Applications

OCEA was involved in the processing of 146 Conservation District Use Applications. Over 40 public hearings were held in the County where the land uses were proposed. A contested case hearing was held for geothermal energy

development.

Under Conservation District Use Applications, major land use proposals were approved on four islands. They included a hydroelectric project at Wailua, Kauai, a landfill at Kailua, Oahu, a wind turbine in Kahului, Maui, as well as a Natural Energy Laboratory proposal for research and commercial development at Keahole, Hawaii and additional improvements for the University's astronomy programs atop Mauna Kea on Hawaii.

Commercial Filming

The number of film permits decreased from 383 in FY 1984-85 to 275 this FY with a corresponding decrease in revenue, from \$125,305 to \$86,750, respectively.

Conservation District Violation and Enforcement

OCEA coordinated the department's efforts in educating the public on potential misuse of Conservation Districts by helicopter operators and worked closely with commercial helicopter operators to inform them of the possibility of seizure, should unauthorized commercial helicopters land in the Conservation District. On other cases, the board imposed financial penalties on some who were found in violation of the Administrative Rules for illegal construction of seawalls on Oahu, the clearing of land in Kaneohe, Oahu and bulldozing a road in a Natural Area Reserve on the Big Island.

Streamlining of Administrative Procedure

OCEA worked on the amendment to Title 13, Chapter 2 of the Administrative Rules, to allow for a master to conduct a public hearing rather than the Board of Land and Natural Resources in certain selected instances. Also, the department is implementing a Memorandum Of Agreement with the Department of Planning and Economic Development which will continue to speed up the film permit process.

DIVISION OF AQUATIC RESOURCES

Administration of the State's programs in commercial fisheries and aquaculture, aquatic resources preservation and enhancement, and aquatic recreation rests with the Division of Aquatic Resources. Major activities include providing opportunities and facilities for recreational fishing, protecting native and other resident aquatic species and their habitat, providing hatchery stock and technical assistance toward aquaculture development, and conducting fishery development projects consistent with the interests of the State.

COMMERCIAL FISHERY AND AQUACULTURE PROGRAM

The Division assists commercial fishery and aquaculture enterprises by increasing productivity through improvements in production methods, product processing, equipment usage and management methods. Commercial fishermen catch reports are also analyzed and stocks of commercially important fish and shellfish species are monitored to determine if regulatory measures are needed to sustain the resources.

Burnt Tuna Syndrome

Studies conducted for the Department by the University of Hawaii on the detection, causes and control of burnt tuna in Hawaii's night handline tuna fishing industry were completed during this period. Burnt tuna syndrome (BTS) is characterized by tuna flesh that has become pale, opaque, watery, and soft with a sour or bitter taste. BTS renders the tuna unpalatable, especially for sashimi, and reduces the commercial value of the fish. The studies identified the predisposing and handling factors that were contributing to BTS occurrence. These were: sex and size of the fish, seasonality, fight time, kill method, time of catch, bleeding, cooling, etc. A handbook was prepared outlining procedures for proper handling and rapid cooling of fish by fishermen to reduce BTS.

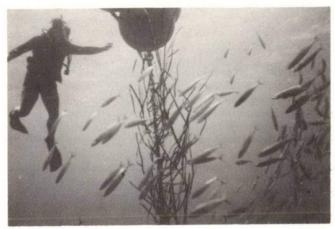
Tuna-Handline Fisheries

To locate new fishing grounds for the "ika-shibi" (night handline) fishery around the island of Hawaii, commercial fish catch reports as well as biological and oceanographic data were analyzed. Analysis of catch-per-unit-effort data also provided valuable insight on this traditional fishery.

Commercial handline tuna fishermen were hired to conduct exploratory fishing on non-traditional grounds. Preliminary data seemed to indicate the presence of new tuna fishing grounds or koas off the Big Island's Hamakua and Hilini Pali coastline. The exploratory fishing grounds yielded an average of 112 pounds of tuna (ahi) per boat per night which is comparable to catch rates on the traditional fishing grounds.

Statewide Fish Aggregating Device (FAD) System

The FAD System continued to provide excellent fishing opportunities for Hawaii's fishermen. The FADs produced an estimated 1,139,772 pounds of fish during the fiscal year. Fishermen caught ahi or yellowfin and bigeye tuna (625,024 pounds), aku or skipjack tuna (284,282 pounds), au or marlin (84,139 pounds), mahimahi or dolphin fish (104,088 pounds), and ono or wahoo (31,781 pounds). Rod-and-reel and trolling by recreational fishermen accounted for 80% of the trips (10,262) and 60% (678,657 pounds) of all fish caught at the FADs.



An aquatic biologist, accompanied by a school of resident opelu, inspects the condition of a recently installed midwater FAD in the experimental fish trolling alley off Waianae, Oahu.

Ten midwater FADs were installed about two miles off the leeward Oahu, Waianae coast to establish an experimental fish trolling alley. The FADs were each placed, a half-mile apart in a line five miles long. There are early indications that the trolling alley is successful. Fishermen have begun to catch ono (wahoo), ahi and even opelu.

Ciguatoxin (CTX) Test Development

Under an agreement with the Department, University of Hawaii researchers continued to develop a rapid and simple test for CTX—a toxic chemical found in certain fishes. CTX poisoning or ciguatera occurs when a person consumes these fishes. Although rarely fatal, ciguatera poisoning is a major constraint to fisheries development in the State. Researchers have successfully developed a six-step enzyme immunoassay stick test to detect the presence of CTX in fish flesh; further studies are being conducted to produce a single-step CTX test for use in the field by fishermen.

Anuenue Fisheries Research Center (AFRC)

Support of the freshwater prawn (Macrobrachium rosenbergii) industry continued. AFRC produced approximately 2.2 million post larval prawns which were distributed to nine private growers under cooperative agreements. These growers farm a total of about 50 acres of ponds. The 20 prawn growers in the State produced approximately 280,000 pounds of marketable prawns valued at about \$1.5 million.

In mid-January 1986, the only large producer of post larval prawns in the State announced its intent to shift from prawns to marine shrimps. In order to temporarily fill the void of post larvae supply, with approval from Board of Land and Natural Resources, the AFRC hatchery began production of post larval prawns for distributional sale to local prawn growers.

The AFRC also provided field extension assistance to the private prawn growers. A recirculating small hatchery system was developed and tested, resulting in the operation of two completed recirculating small hatchery systems in the

private sector.

A seaweed project continued with ogo and limu manauea "seed rock" production and "test" plantings on Oahu. Outplantings of "seed rocks" at barren areas generally did not develop or were grazed on very heavily by fishes. On the other hand, growth occurred in areas where natural populations of limu were relatively abundant. Relationships

between nutrient levels, temperature, and salinity are being investigated to elucidate the cause(s) for differences in limu "seed rock" growth.

AQUATIC RESOURCES PRESERVATION AND ENHANCEMENT PROGRAM

The objectives of this program are to protect and enhance the State's resources of fish and other aquatic life through active protection, propagation and other appropriate management measures. Major program activities include monitoring aquatic life, establishing sanctuaries, and evaluating development proposals by providing comments on potential impacts and recommending mitigation measures for aquatic life and habitats.

Marine Life Conservation Districts (MLCDs)

Since 1967, the Department has established eight MLCDs in areas of special resource value. During the year, divers monitored the Molokini Shoal and Honolua-Mokuleia MLCDs on Maui, Manele-Hulopoe on Lanai, and Hanauma Bay and Pupukea MLCDs on Oahu. Fish counts and other observations were conducted at Olowalu, Maui, a potential MLCD site. Generally, the fish count surveys indicated a decline in fish densities, but within the range of long-term averages. This decline was generally attributed to the return to more normal levels of certain species which were unusually abundant during the last surveys.



Diver counting fishes at Molokini Shoals Marine Life Conservation District (Maui) to monitor the area's fish population.

Environmental Protection

Evaluations and comments (on evaluating potential effect on aquatic resource value, recommending requirements to minimize adverse environmental impacts, suggesting ways to compensate for unavoidable losses) were provided to developers, government agencies and approving authorities. A total of 330 permit applications, requests, proposals and impact assessments was reviewed and responded to during the year.

Marine Turtles

The Division continued to assist the National Marine Fisheries Service with its research on marine turtles for purposes of "recovering" these species from their present threatened and endangered statuses.

On Molokai, 69 green sea turtles were tagged, measured and released. Nine of the turtles were tagged previously, providing measurements on growth and movement.

In September 1985, an olive ridly turtle nest was discovered at Paia, Maui. The eggs were removed and hatched artificially to protect against high waves which began to wash over the beach. After 2½ months of incubation, 11 hatchlings were transported to Sea Life Park on Oahu. This incident was documented and is believed to be the first time that an olive ridley turtle nesting has been recorded in Hawaii.

The Division participated at two meetings as a member of the Hawaiian Sea Turtle Recovery Planning Team. Drafts of recovery plans were initiated for the threatened green sea and olive ridley turtles, endangered hawksbill and leatherback turtles known to frequent Hawaiian waters.

AQUATIC RECREATION PROGRAM

The objective of this program is to enrich the leisure time and recreational opportunities of the public. Program activities include surveys of fish populations and research on individual species; interviews of sport fishermen surveys, operation of fishermen checking stations, development, maintenance, and management of Public Fishing Areas and Fisheries Management Areas, and communication with the public to educate and inform them of proposed actions.

Northwestern Hawaiian Islands Nearshore Resource Assessment

Two surveys of the nearshore aquatic resources were conducted in the Northwestern Hawaiian Islands (NWHI) during this year. The first survey was a 19-day trip between June 29 and July 17, 1985, at Nihoa, Necker, French Frigate Shoals (FFS), Brooks Bank, St. Rogatien Bank, and Maro Reef. The second survey was to Kure Atoll from October 7 to 12, 1985, to remonitor fish count stations and collect samples for testing ciguatoxin content.



Ulua were tagged and released at Maro Reef (Northwestern Hawaiian Islands) as part of a study to determine their movement and distribution.

On the first survey, 425 white ulua (Caranx ignobilis) and 34 omilu (C. melampygus) were tagged at FFS and Maro Reef. There was no sighting or recovery this year from more than 600 ulua tagged and released in the NWHI in prior years.

Tissue samples from 786 reef fish collected during both trips were tested for ciguatoxin (CTX) at the UH's Department of Pathology (School of Medicine), with borderline and positive results (34%) remaining about the same as last year (37%). Fish counts at FFS and Kure Atoll revealed no significant changes in fish species composition and density as compared to those conducted in the same area during previous years.

Spiny lobsters were placed in plastic traps at Maro Reef and Kure Atoll to determine the extent to which the lobsters are retained by the traps. In both areas, lobsters escaped readily from the traps. Although new lobsters entered the traps, there was a net decrease of lobsters the longer the traps were left in the water.

Waikiki-Diamond Head Shoreline Fisheries Management Area

The Waikiki-Diamond Head Shoreline Fisheries Management Area (FMA) was opened to all legal fishing during the reporting period (July 1, 1985 to June 30, 1986). Interviews of 761 fishermen gave a catch of 7,625 fishes. Throw netters had the highest hourly fish catch rate (3.2 fish per hour), followed by gillnetters (2.1 fish per hour), spear fishermen (1.9 fish per hour) and pole-and-line fishermen (0.4 fish per hour). In terms of the total number of fishes caught, gillnetters accounted for 5,990 fishes and 79% of the total catch by all types of fishing gear. As expected, with utilization, the average standing crop decreased from last year's estimated 366 pounds per acre to 180 pounds per acre for the current report period. To expand the management by area ("kapu") concept on a statewide basis, the 1986 Legislature appropriated \$50,000 for implementation.

Artificial Reef Development

The addition of 50 experimental concrete-tire habitats (fish shelters) to the Maunalua Bay Artificial Reef has attracted a number of fish species, including butterflyfishes, damselfishes and goatfishes. The Division began construction of 1,000 concrete-tire habitats to enhance the fish carrying capacity of the area.



Tire-in-concrete fish habitats or shelters recently installed at the Maunalua Bay Artificial Reef (Oahu) to increase the area's fish population and diversity.

Various State and Federal permits and approvals were obtained to establish a pilot deepwater (300 to 420-foot depth) artificial reef off Ewa, Oahu. Surplus concrete products, boulders and other clean, habitat-enhancing materials are planned for collection and installation at this site to attract bottomfish species such as the uku and opakapaka for sport and commercial fishing. To implement this activity, the 1986 Legislature provided \$60,000 to the Division's operating budget.

In May, a dive team conducted initial surveys in the Puamana, Launiupoko, and Wahikuli (West Maui) nearshore areas for potential establishments as artificial reef sites. These areas had similar characteristics of flat, sand

bottoms, limited marine life, and depths ranging between 60 to 70 feet, ideally suited for artificial reef development. Additional surveys are needed for these and other potential reef sites to pursue establishment of a statewide artificial reef system.

Freshwater Public Fishing Areas (PFAs)

Kokee PFA, Kauai—Check-in station data from the Kokee PFA, Kauai, during the rainbow trout fishing season (August 3 to September 29, 1985) showed that 478 angler trips produced 380 fish. A total of 910 fishing hours was expended with each fisherman averaging 1.9 hours to catch 0.8 trout per fishing trip with the fish averaging 8.7 inches and 5.9 ounces.



Three anglers at the Nuuanu Reservoir (Oahu) showing off their prize catch of catfish.

Nuuanu Reservoir No. 4, Oahu—Three weekend openings for channel catfish at the Honolulu Board of Water Supply Nuuanu Reservoir No. 4, Oahu, were held during August and November 1985, and between May to June 1986, for a total of 27 weekend fishing days. Combined results for the three openings showed that 3,101 anglers (out of 4,638 applicants) caught and retained 2,526 catfish weighing 2,796 pounds. The overall catch rate was 0.8 fish per angler with the fish averaging 14.8 inches and 17.7 ounces.

Wahiawa PFA, Oahu—Fishermen creel censuses at the Wahiawa PFA, Oahu, showed species composition of: tilapia, 74.7%; bluegill, 10.1%; largemouth bass, 5.1%; carp, 4.4%; channel catfish, 1.7%; snakehead, 1.7%; Chinese catfish, 1.4%; tucunare, 0.6%; and smallmouth bass, 0.3%. The 192 anglers interviewed caught a total of 296 fishes during 478.25 hours of fishing for a catch rate of 0.6 fish per angler hour.

Freshwater Gamefish Culture

Rainbow Trout—Rainbow trout eggs were purchased from Mt. Lassen Trout Farm, California, and hatched in a refrigerated rearing system at AFRC. The 122,200 fingerling trout (1.5 inch) produced were shipped to Kauai and planted using a helicopter into fishable streams within the Kokee PFA.

Channel Catfish—An estimated 25,840 fingerling channel catfish were stocked in the Wahiawa Public Fishing Area. The catfish were from five egg masses collected in Nuuanu Reservoir No. 4 during June to July 1985 and hatched at AFRC. In addition to these releases, an estimated 3,000 fingerlings are also being held in cages in the Nuuanu Reservoir No. 4 for eventual release.

Tucunare—A total of 23,500 tucunare fingerlings from eight egg masses collected at the Wahiawa Reservoir in May and June 1985 and cultured at AFRC were returned to the Wahiawa Reservoir PFA during this period.

MISCELLANEOUS PERMITS (NO CHARGE) Fiscal Year 1985-86

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Scien	ıt	if	i	: (Co1	11	ec	ti	ng	Pe	er	mi	ts	_	F	isl	nei	rie	es									32
Group)	Fi	sł	nir	ıg	P	eri	ni	ts													•		٠				1
TOTAL																												33

FEDERAL AID FUNDS 1/ Fiscal Year 1985-86

Туре	Amount (Dollars)
Federal Aid in Fish Restoration Fund	\$533,682
Commercial Fisheries Research & Development (P.L. 88-309) Fund	67,761
TOTAL	\$601,443

^{1/} Cash reimbursements from federal government during Fiscal Year 1985-86; outstanding claims not included.

COMMERCIAL FISH LANDINGS

Fiscal Year 1984-85

ISLAND		Sea Catch			Pond Catch			Total	138
	Caught (Pounds)	Sold (Pounds)	Value (\$)	Caught (Pounds)	Sold (Pounds)	Value (\$)	(Pounds)	Sold (Pounds)	Value (\$)
Hawaii	2,459,923	2,360,621	\$3,496,607.40	16,917	16,917	\$40,326.14	2,476,840	2,377,538	\$3,536,933.54
Maui	805,488	762,215	1,039,521.28				805,488	762,215	1,039,521.28
Lanai	16,817	14,558	20,126.15				16,817	14,558	20,126.15
Molokai	38,937	33,724	80,791.23	1,091	102	140.00	40,028	33,826	80,931.23
Dahu	5,444,454	5,312,818	10,115,795.31	15,350	15,335	21,799.30	5,459,804	5,328,153	10,137,594.61
Kauai	644,312	564,725	1,093,066.98				644,312	564,725	1,093,066.98
TOTALS	9,409,931	9,048,661	\$15,845,908.35	33,358	32,354	\$62,265.44	9,443,289	9,081,015	\$15,908,173.79

State of Hawaii Department of Land & Natural Resources Honolulu

DIVISION OF AQUATIC RESOURCES

COMMERCIAL FISH LANDINGS BY SPECIES, STATE OF HAWAII - FISCAL YEAR 1985

Sea Landings by Species	Sea	Landings	by	Species
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SPECIES	LBS LANDED	LBS SOLD	VALUE	SPECIES	LBS LANDED	LBS SOLD	VALUE
Tuna (Unclass)	135	122	\$ 152.50	Nohu	4,024	3,734	7,664.15
Aku	3,202,283	3,147,438	2,802,959.12	Nunu	289	231	943.15
Ahi (Yellowfin)	1,963,593	1,884,108	3,016,194.40	Oililepa	1,286	1,235	5,469.83
hipalaha	311,890	309,464	231,228.65	Oio	8,578	7,758	1,260.00
hi (Bigeye)	166,326	165,999	381,294.83	Omaka	506	457 37	55.95
Cawakawa	11,270	8,145	10,072.71	Oopuhue	43	204,794	319,203.22
wordfish (Unclass)	525	525	1,062.00	Opelu	213,921	38	23.00
triped marlin	67,457	61,084	91,634.27	Pala	44	9	9.70
.B. marlin	412,548	364,334	285,445.56	Pakii	14	105	62.70
Black marlin	8,624	6,162	6,553.92	Pakuikui	120	19,936	14,747.85
S.N. spearfish	28,904	25,772	43,684.67	Palani	21,023	19,930	111.41
Broadbill	16,379	16,255	33,706.02	Panuhunuhu	207 136	136	203.73
Sailfish	2,457	2,076	2,479.67	Panunu	36	36	69.98
Mahimahi	291,658	276,207	891,087.81	Paopao	17	17	26.23
Ono	305,853	289,506	703,179.78	Pauu	2,014	1,922	1,565.08
Hapuupuu	87,842	86,722	140,946.04	Pualu	2,424	2,176	629.65
(ahala	63,788	56,130	42,198.11	Eel	120	120	54.21
Kalikali	23,512	21,256	44,965.73	Eel (Black)		713	542.69
Omilu	7,431	7,051	11,538.28	Eel (White)	744	26,683	30,812.64
Opakapaka	357,531	345,930	1,063,194.10	Uhu	27,728	5,826	11,963.46
Jku	97,431	94,453	251,436.37	Ukikiki	6,323	437	724.66
Chu	50,220	46,965	126,878.07	Uouoa	513	23	15.50
Onaga	177,807	172,799	631,377.14	Upapalu	33		78,396.55
Ulua	66,343	60,043	95,380.88	Uu	36,977	35,282	63.61
Weke-ula	15,098	13,602	28,348.12	Uukanepou	34	745	471.75
A'awa	2,857	2,483	1,606.92	Walu	925	45.898	58,741.51
Ahaaha	486	355	408.68	Weke	48,304	315	572.69
Aholehole	3,940	3,584	5,952.56	Ulua kihikihi	364		12,706.15
Akule	266,730	241,448	343,603.77	Opah	15,250	15,250	2,915.74
Alaihi	156	142	168.11	Malu	2,013	1,941	37.31
Amaama	4,727	4.348	10,710.98	Saba	31	22 18	15.63
Awa	1,451	1,312	1,213.85	Opelu mama	33	10	20.00
S. Mullet-Engeli	3	3	7.50	Tilapia	91		35,942.28
Awaawa	822	689	497.03	Taape	50,617	47,216	15,078.66
Aweoweo	5,465	5,054	7,381.33	Toau	20,478	18,108	1,381.19
Ea	320	257	105.91	Roi	508	504	170.76
Hahalalu	17,644	17,152	26,331.68	Keokeo	250	247	10,207.65
Hanui	383	248	288.10	Manchon-pomfret	7,475	7,402	800.04
Hihimanu	56	56	44.80	Pcopaa	689	569 897	1,214.09
Hilu	69	69	36.25	Po'ou	953	31,676	35, 269.77
Hinalea	290	247	154.48	Ulua-Buta	31,769		3.908.76
Humuhumu	406	148	341.98	Ulua-Dobe	2,933	2,909	483.35
Iheihe	96	96	91.00	Ulua-Gunkan	389	336	361.37
Kaku	5,102	4.016	4,187.47	Ulua-Menpachi	372	4,219	7.935.30
Kala	8,901	7,964	4,479.49	Ulua-Paapaa	4,411	15,969	28.060.29
Kamano	4,466	3,926	4,351.36	Ulua-White/Black	16,778	1,488	6,526.3
Kawelea	4,842	4,466	4,456.82	Moana Kali-aoweke	1,608	365	395.0
Kole	4,703	4,522	4,791.82	Crab (Unclass)	650	17,478	57,932.2
Kumu	10,937	10,431	42,987.30	Crab (Kona)	21,918	7,552	25,048.0
Kupipi	206	205	223.58	Crab (White)	7,620	755	1.982.0
Kupoupou	63	63	105.77	Crab (Moala)	759	405	1,461.9
Laenihi	8.088	7,001	20,472.71	Crab (Samoan)	510	143	624.2
Lae	459	356	363.90	Shrimp (Opae)	156	101,802	207,066.5
Lauwiliwili	238	226	75.21	Shrimp (Laevigatus)	101,914	308,813	2,308,921.2
Lehi	25,610	24,147	62,709.42	Lobster	310,974	189,638	882,065.5
Maiii	91	91	64.57	Slipper lobster	193,160	15,588	34,358.2
Maiko	628	618	265.40	Hee	20,742	10,672	14.096.0
Malolo	6	5	2.48	Muhee	11,530	12,730	30,547.6
Maomao	1,574	1,544	1,896.93	Opihi	13,512	258	1,419.0
Manini	9,472	8,125	12,377.14	Oopu	268 141	15	.82.5
Mano	12,230		11,301.11	Wana		32	80.0
Mano kihikihi	168		85.00	Namako	32	15,407	28,500.8
Moano	5,873		12,501.04	Limu	16,207	2,820	4,360.0
Moi	1,154		3,389.77	Coral (Stony)	2,820	750	750.0
Moelua	14			Coral (Rose)	750	88	1,408.0
Mu	3,725		6,924.49	Coral (Black)	3,128		5,399.9
Naenae	5,076		2,225.95	Misc.	4,321	4,018	3,377.7
Nehu	24		15.08		0 100 001	0 0/9 661	\$15,845,908.3
Nenue	8,968		5,594.94	TOTAL	9,409,931	9,048,001	\$15,045,700.5

POND CATCH BY SPECIES Fiscal Year 1984-85

SPECIES	LBS. LANDED	LBS. SOLD	VALUE
	570	530	\$ 1,232.05
Ulua	400	382	1,088.30
Aholehole	9,503	9,286	24,702.06
Amaama	561	538	670.44
Awa	124	124	402.00
Summer Mullet	349	349	352.60
Awaawa		241	617.45
Kaku	389	241	017.43
Lae	2		4.00
Moi	22	8	
Oio	8,714	8,453	8,692.25
Palani	15		1 500 00
Pualu	1,514	1,514	1,500.33
Taape	2		
Toau	777	777	2,425.55
Tilapia	3,232	3,231	6,867.60
Crab (Unclass)	10		
Crab (White)	196		
Crab (Moala)	52		
Crab (Samoan)	76	71	275.05
	1	1	2.25
Oopu (Opac)	1	1	4.50
Shrimp (Opae) Misc.	6,848	6,848	13,429.01
TOTAL	33,358	32,354	\$62,265.44

AQUARIUM FISH CATCH STATISTICS FISCAL YEAR 1985-86

	Number Permits	Number Caught	Number Sold	Value
Non-commercial	124	(Non-commer	cial catch repo	rts not required)
Commercial	61	148,745	146,947	\$242,417*

^{*} Average cost per organism = \$1.65

DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT

The Division of Conservation and Resources Enforcement (DOCARE) is responsible for enforcement activities of the Department of Land and Natural Resources. The Division, with full police powers, enforces all State laws and rules involving State lands, State parks and historic sites, Natural Area Reserves, forest reserves, aquatic life and wildlife areas, Conservation Districts, State shorewaters and shores, as well as county ordinances involving county parks. The Division also enforces laws relating to firearms, ammunition, and dangerous weapons.

Investigation and Enforcement

In fiscal year (FY) 1985-86, a total of 1,461 complaints were investigated by the Division. These complaints involved fishing, hunting, forest reserves, State parks, Natural Area Reserves, Conservation Districts, and other miscellaneous activities.

A total of 3,839.50 hours were expended in the

investigation of complaints.

The Division assisted County police departments and the Federal Drug Enforcement Administration in the combat against marijuana cultivation by involvement with "Green Harvest" and other marijuana eradication operations. Arrests were effected when marijuana cultivation were detected on the island of Hawaii. On Kauai, arrests were effected when marijuana possession was detected.

The Volunteer Conservation and Resources Enforcement Officers (total of 50 statewide) accounted for 8,700 hours of patrol time with the regular officers. The Volunteers were also involved with monthly meetings and training sessions.

Conservation Enforcement Training

The regular and volunteer enforcement officers attended training sessions which were scheduled throughout the year. Among the subjects covered were Factual Report Writing, Ethical Conduct, Use of Mace, Criminal/Civil Liability, First Aid and CPR. The firearms instructors from each island also attended a refresher class held on Oahu. Semi-annual firearms qualifications were also conducted and sessions on the new laws enacted by the past legislative session. The U.S. Attorney's office conducted classes on Federal forfeiture procedures.

Public Information and Education

A variety of information and education services are

provided to the public. Among these are posters identifying certain marine animals and the closed season periods, a digest on the restrictions on size and harvest methods of marine life and areas where fishing is restricted. These posters and digest are distributed through DOCARE's offices and by the enforcement officers at various fish markets, sporting goods stores, and boat ramps.

The various newspaper agencies, radio stations, and television stations were contacted for press releases on the open and closed seasons on fish and wildlife, amendments to conservation laws and rules, and schedules of hunter safety

education classes.

The DOCARE officers appeared before various schools, youth and community organizations, and even summer work crews on Lanai to explain their responsibilities and enforcement authority.

DOCARE also participated in the various county police recruit training classes to present its responsibilities and

enforcement role.

Hunter Safety Education

The State's Hunter Safety Education Program was awarded the Award of Merit, Class AA, from the International Association of Fish and Wildlife Agencies for achievement in the field of Hunter Education for 1985.

A total of 392 students were certified for successfully

completing the hunter safety education course.

Volunteer hunter safety education instructors spent a total of 1,522 hours in providing instruction and services towards the program. Included in the services provided were manning of information booths at gun shows, and programs such as National Hunting and Fishing Day and

county fairs.

"Teaching Techniques in the Hunter Safety Education Program" was the theme of a two day workshop attended by the Volunteer Instructors which was conducted with the cooperation of individuals from various organizations. Among these were Mr. Liberato C. Viduya, Department of Education (State of Hawaii); Mr. Rick Lemon, Federal Aid Hunter Education Planning Specialist; Mr. Vernon Von, Department of Personnel Services (State of Hawaii); Mr. Lawrence Hirai, Environmental Specialist, U.S. Army Command; and Mr. C. Red Hasay, Chief of Program Training, Fish and Wildlife, Alberta, Canada.

DIVISION OF CONSERVATION & RESOURCES ENFORCEMENT

ANNUAL REPORT 1985-1986

CITATIONS, PENAL SUMMONS, ARRESTS AND DISPOSITIONS

Island	No. of Citations	No. of P/Summons	No. of Arrest	No. of Charges	Bail Forfeiture	Cases Dismissed	
Hawaii	28 Parking 115			115	\$200	14	
Maui (Lanai & Molokai)	2 Parking 76	1	31	108	\$ 50		
Kauai	21 Parking 177		5	182	\$145	4	
Oahu	889 Parking 205		7	212	\$ 50		
TOTAL	573	1	43	617	\$445	18	
	940 Parking	21					

Island	Convictions	Fines	Split Fines Fines/S-Fines	Suspended Sentence
Hawaii	19	\$ 950		6(8 hrs. community service) DAGP - 30 days/\$50 special contribution
Maui (Lanai & Molokai)	18	\$1,900	\$400/\$300 susp.	
Kauai	\(\)	\$1,680	2(\$500/\$475 susp. 1 yr.) \$175/\$125 susp. 1 yr.) \$ 50/\$100 susp. 1 yr.) 2(\$150/\$ 75 susp. 1 yr.) \$ 50/\$ 25 susp. 6 mps.	1 (DAG-3 mos., contribute \$50 General Fund) 2 (nets forfeited)
TOTAL	76	\$4,530	\$400/\$300 susp. \$ 50/\$ 25 susp. 6 mos. \$1,625/\$1325 susp. 1 yr.	6(8 hours community service) DAGP - 30 days/\$50 special contribution DAGP - 3 mos. contribute \$50 General Fund 2 nets forfeited

Disposition of Pending Cases

Island	Bail Forfeiture	Juvenile Authorities	Cases Dismissed	Cases Pending
Hawaii	\$50		1 special contribution \$50 42	47
		1(8 hrs. comm. service) 1(10 hrs. comm. service) 1(C&R ordered to attend Hunter Safety Course)		
Maui (Ianai & Molokai)	\$525	1(25 hrs. comm. service) 10(C&R)	21	22
Kauai	\$815	8 (C&R)	30	11
Oahu	\$375	1 (C&R)	40	212
TOTAL	\$1,765	1(8 hrs. comm. service)	133	292
		1(10 hrs. comm. service) 1(25 hrs. comm. service) 19 (counseled & released) 1(counseled & released/ ordered to attend Hunter S	l special contribution \$50 Safety Course)	

Island	Convictions	Fines	Suspended Fines
Hawaii	44	1(\$200 or 4 days jail in lieu of fine) 2(\$100 or 2 days jail in lieu of fine) \$710	\$100 susp. 6 mos.
Maui (Lanai & Molokai)	48	\$2,615	
Kauai	72	\$3,885	
Oahu	181	\$5,015	
TOTALS	345	1(\$200 or 4 days jail in lieu of fine) 2(\$100 or 2 days jail in lieu of fine) \$12,225	\$100 susp. 6 mos.

Island	Split Fines Fines/S-Fines
Maui (Ianai & Molokai)	\$500/400 suspended \$1000/60 days jail; 50 hours community service; 5 years probation \$2,500/6 months jail; 250 hours community service; 5 years probation \$7,500/6 months jail susp.; 5 years probation; must leave State 2(\$400/\$200 susp. 1 year; No Hunting 1 year) 2(\$50/25 hours community service) \$100/\$50 susp. 1 year \$50/10 days jail suspended 6 months \$200/\$100 suspended 6 months
Kauai	6(\$250/\$175 suspended 6 months) 4(\$200/\$150 suspended 1 year) 2(\$50/\$30 suspended 1 year) \$200/\$175 suspended 6 months \$300/\$100 suspended 1 year \$200/\$100 suspended 1 year

Disposition of Pending Cases - (Cont'd.)

Oahu	\$50/10 days jail suspended 1 year \$50/S/S 3 months \$45/probation 6 months
TOTALS	\$500/\$400 suspended \$350/\$/\$ 6 months \$1,500/\$910 suspended 1 year \$50/\$/\$ 3 months \$45/probation 6 months 2(\$400/\$200 suspended 1 year; No Hunting 1 year 2(\$50/25 hours community service) \$50/10 days jail suspended 6 months \$50/10 days jail suspended 1 year \$1,000/60 days jail; 50 hours community service, 5 years probation \$2,500/6 months jail; 250 hours community service; 5 years probation \$7,500/6 months jail; 5 years probation; must leave State

Island	Suspended Sentence	Jail Sentence
Hawaii	4(8 hours community service in lieu of \$25 fine) 5(225 hours community service in lieu of fine & jail) 3(DAGP - 30 days special contribution \$100) 2(DAGP - special contribution \$25) 1(special contribution \$25) 1(S/S 1 week)	1(1 year) 1(5 years) 1(10 years)
Maui (Lanai & Molokai)	2(DAGP 6 months) 25 hours community service 5(1 year suspended)	
Kauai	80 hours community service	
Oahu	3 months suspended 9 months suspended 13 months suspended 10 (6 months suspended) 1 (1-3 weeks suspended) 1 (2-3 months suspended) 1 (3-6 months suspended) 1 year suspended 4 (30 days suspended) 6 years; serve 1 year; \$52 contribution 2 (8 hours community service)	
TOTAL	6(1 year suspended) 1(13 months suspended) 1(9 months suspended) 1(3 months suspended) 1(3-6 months suspended) 1(2-3 months suspended) 1(1-3 weeks suspended) 1(6 months suspended) 1(6 months suspended) 1(5/S 1 week) 4(30 days suspended) 121 hours community service 2(DAGP 6 months) 6 years; serve 1 year; \$52 contribution 4(8 hours community service in lieu of \$25 fine) 5(225 hours community service in lieu of fine & jail) 3(DAGP - 30 days; special contribution \$100)	1(1 year) 1(5 year) 1(10 year)

FIELD ACTIVITIES

Activity	Number	
Patrols & Investigations: Vehicle (Miles) Foot (Miles) Boat (Miles) Horseback (Miles) Swimming (Miles) Stakeouts Stakeout (Hours)	665,793.00 4,830.90 1,133.00 117.00 1.00 356.00 974.75	

FIELD CONTACTS MADE

Field Contact	Number Contacted	Citations	Arrests	Penal Summons	Warnings
Commercial fishermen	3,592	2			38
Marine sport fishermen	36,001	50		1	152
Freshwater fishermen	4,017	40			34
Hunters	8,903	81	7		138
Fish & Wildlife resource					11
State parks users	148,603	64	2		2,111
Forestry users	7,597	32	3		144
Wildlife sanctuary	162	8			3
Natural area reserves	297	2			8
Hunter safety	45				
MICD	414				12
Land Management	327				7

INSPECTIONS MADE

Types of Inspection	Number Inspected	Citations	Arrests	Warnings	
Commercial fishing crafts Sport fishing crafts Saltwater fishermen Freshwater fishermen Hunters Fish markets Fish peddlers License agents Aquarium fish facility State parks Forest reserves Tea houses/restaurants Wildlife sanctuary Marine life cons. district NARS Land Management	1,101 1,522 15,680 4,046 5,988 2,764 36 214 77 12,410 3,360 42 173 406 126 94	10 3 100 28 73 4 1 45	8 18	129 228 209 406 175 26 2 1,260 159	

COMPLAINTS AND INVESTIGATIONS

Type of Complaints and Investigations	Number	Hours
Fishing Hunting Forestry State parks DLNR Regulation No. 4 Miscellaneous	363 102 87 253 439 217	828.00 512.75 294.50 592.50 1,050.25 561.50

PUBLIC INFORMATION

Types of Information	Number	
Talks made to groups Informational/printed material	36 1,527	

CITATIONS AND ARRESTS

	Number	
Type of Violations	3	
Commercial fishing license (no commercial fishing license)	2	
Commercial fishing license (no commercial lishing	3	
Commercial fishing license (response to submit Fish Dealer's Report Failure to submit Fish Dealer's Report	5	
Sale/possession undersize Opihi Sale/offer of sale of fish minimum size (under size - less than 5" Aholehole Sale/offer of sale of fish minimum size (under size - less than 7")	2) 1	
Sale/possession sale of fish minimum size (under size	5	
Minimum size (papio - less than 7) Octopus (possession of octopus less than one pound) Octopus (possession of Samoan crab less than 6" across carapace)	22	
Octopus (possession of octopus less than one pound) Octopus (possession of octopus less than 6" across carapace) Samoan crab (possession of Samoan crab less than 6" across carapace)	6	
	12	
Unlawful taking of sea mullet during crossers Unlawful fishing with spear/firearm (speared lobster) Unlawful fishing with spear/firearm (spearing Manini less than 5"; Kala Unlawful fishing with spear/firearm (spearing Manini less than 5";		
Unlawful fishing with spear/firearm (spearing Manini less did o	3	
less than 9")	1	
less than 97	5 7	
Taking O'ama over bag limit Taking bait fish without license Taking bait fish without license	7	
Taking bait fish without fish eggs (lobster)	1	
Taking bait 11sh without Taking crustacean with eggs (lobster) Taking crustacean with eggs (Kona crab) Taking crustacean with eggs (Kona crab)	1 2 5	
Taking crustacean with eggs (taking O'opu with trap)	5	
Taking crustacean with eggs (Kona Crab) Taking crustacean with eggs (Kona Crab) Hinana and O'opu taking prohibited (taking O'opu with trap) Permit to take/possess/sale shellfish (oysters) Permit to take/possess/sale pehu/Tao	4	
Permit to take/possess/sull/Tag	5	
	4	
postricted fishing activity	6	
postriction on taking/possessing labetar) closed season (take)	10	
Restricted Fisher Possession/sale of introduced Fisher Restriction on taking/possession/sale of introduced Fisher Restriction on taking/possession/sale of introduced Fisher Restricted Fisher Possession/sale of introduced Fisher Restricted Fisher Restricted Fisher Possession/sale of introduced Fisher Restriction on taking/possession/sale of intro	1	
Take/kill/sale of crustacean (Spiny lobster) Closed Take/kill/sale of crustacean (Spiny lobster) Closed Spiny lobster or ula (spiny lobster less than 3¼" carapace) Spiny lobster or ula (spiny lobster less than 3¼" carapace)	37	
Note and traps (Illegal clap 2	2	
-: 1: rith tine mesti let	1	
Fighing in certain waters (Fight) net - Walkaena Carai)	3	
Fishing with The Modern (fishing with gill net - Walkacha Canal) Fishing in certain waters (fishing with throw net - Walkacha Canal) Fishing in certain waters (fishing with throw net - Kapaa Canal)	1	
Fishing in certain waters (fishing with throw net - Kapaa Canal) Fishing in certain waters (fishing with throw net - Kapaa Canal) Fishing in certain waters (fishing with throw net - Wajloa Pond	31	
Possession/use line hesh difference within State waters (difference within State waters)	2	
Possession on use of poisonous states after 7:30 pm)	2	
Possession on use of poisonous substances within performance or probabilities or waithing after 7:30 pm). Prohibited activities - Waiakea Pond (no life preserver on boat) Prohibited activities - Waiakea Pond (using crab nets)	2 2 2 3 2	
Prohibited activities - Waiakea Pond (No IIIc Path nets)	2	
Prohibited activities - Waiakea Pond (No 1116 prohibited activities - Waiakea Pond (using crab nets) Prohibited activities - Waiakea Pond (using crab nets) Prohibited activities Hanguma Bay (taking of fish)	6	
	1 3	
- 1:1-1-100 20T1 // 1 1ES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11	
Prohibited activities - Manele-Hulupoe MLCD (fishing with the distriction on use of nets) Prohibited activities - Pupukea MLCD (restriction on use of nets) Prohibited activities - Pupukea MLCD (restriction on use of nets) Prohibited activities - Wahiawa PFA (no freshwater fishing license)	1	
Deschibited activities	7	
Prohibited activities - Waniawa PFA (No of thrownet) Prohibited activity - Wahiawa PFA (use of thrownet) Prohibited activity - Waniawa PFA (use of thrownet) Prohibited activity - Waniawa PFA (no fishing)	1	
Prohibited activity - Wahiawa PFA (use of throwner) Prohibited activity - Nuuanu Freshwater Fish Refuge (no fishing) Prohibited activity - Nuuanu Freshwater Fish Refuge (no fishing)		_
Prohibited activity - Nadding 12000 Prohibited use of electro-fishing device	252	
	250	
TOTAL FISHING VIOLATIONS		
TOTAL LIGHTING		

Hunting

Hunting without license	44
Hunting during closed season	5
Hunting without permit - special season	2
Hunting in closed area	2
Hunting birds during closed season	1
Hunting of gamebirds in violation of Exhibit I (Hen pheasant)	1
Failure to carry/display hunting license	2 1 1 3 5
Permitting illegal use of hunting license	3
No entry permit Unlawful night hunting	5
Unlawful game mammal hunting - non hunting day	9
Safety zone (possession of firearm in safety zone)	4
Prohibited hunting in forest reserve	1
Prohibited hunting (hunting Blacktail Deer - closed season)	1
Prohibited hunting (firearm in prohibited area)	1
Use of tags (hunting goats without tags)	2
Conditions & restrictions - failure to check in	11
Conditions & restrictions - removal of live game	9
Conditions & restrictions - no colored garment	1
Conditions & restrictions - prohibited hunting of game mammal	12
Conditions & restrictions - loaded firearm in vehicle	6
Conditions & restrictions - illegal firearm Conditions & restrictions - possession of firearm on non-hunting day	1
Conditions & restrictions - possession of firearm in Wailua GMA	1
Conditions & restrictions - possession of firearm in archery area	7
Conditions & restrictions - possession of handown in public hunting area	1
Conditions & restrictions - possession of rifle (.30 caliber) in game	
bird hunting area	1
Designation of public hunting area (hunting game mammal (pig) in bird	2
hunting area	2 11
Dogs prohibited	1
Taking over bag limit of gamebird	
Bag limits, open season, and hunting days (hunting game bird in game	2
management area - non-hunting day)	
TOTAL HUNTING VIOLATIONS	155
TOTAL HONTING VIOLATIONS	
State Parks	
	E1
Camping without a permit	51 36
Closed area - Magic Island	1
Closed area - Honolulu Stadium Park	1
Closed area - Waimanalo State Park	1
No special use permit (parking of equipment) Wailoa Park Prohibited operation of vehicle off road	12
Prohibited commercial solicitation (sale of ice cream) Magic Island	3
Prohibited solicitation in State Park	1
Prohibited operation of vehicle - reckless speeding	1
Prohibited activity (cutting trees) Wailua State Park	1
Animals (dogs in park)	3 1 1 4 1 2 1
Firearms, other weapons (possession of cross-bow) Kalalau	2
Possession of alcohol within State Park	1
Residence on premises (residing on premises)	1
Sanitation (littering on premises)	1
Swimming, nudity (nude sun bathing)	
TOTAL STATE PARKS VIOLATIONS	118
TOTAL STATE FAMO VIOLETTOID	

Forestry

Prohibited entry - closed watershed Collecting forest items without permit (Maile) Animals (failure to control dogs in forest reserve - Nonou Mountains) Firearms or other weapons (possession firearm in forest reserve)	5 9 2 3
TOTAL FORESTRY VIOLATIONS	19
Fish and Wildlife Sanctuary	
Prohibited entry - Manana Island Prohibited activity - Paiko Wildlife Sanctuary (fishing)	6 3
TOTAL FISH AND WILDLIFE SANCTUARY VIOLATIONS	9

CITATIONS AND ARRESTS

Type of Violations	Number
Firearms	
Alien in possession of firearm Place to keep firearm Alteration of identification mark prohibited (.22 caliber rifle)	1 6 1
TOTAL FIREARM VIOLATIONS	8
Natural Area Reserves	
Prohibited activities in Natural Area Reserves - Ahihi/Kinau (fishing)	11
Prohibited activities in Natural Area Reserves - Ahihi/Kinau (taking lava rocks)	2
TOTAL NATURAL AREA RESERVES VIOLATIONS	13
Miscellaneous	
Harasssment Promoting detrimental drug - 2nd degree (marijuana)	1 2
TOTAL MISCELLANEOUS VIOLATIONS	3

LICENSES AND PERMITS

COMMERCIAL MARINE FISHING

TYPE	HAWAII	MAUI		KAUAI	(AHU	S	TATEWIDE
Commercial Marine								
Resident Number Amount	\$ 764 19,100	\$ 451 11,275	\$]	420 LO,500		1,121 8,025	\$	2,756 68,900
Non-Resident Number Amount	\$ 24 1,200	\$ 1 50	\$	5 250	\$	94 4,700	\$	124 6,200
Duplicate Number Amount								
Special Marine Product Number Amount	\$ 22 140	\$ 11 35	\$	3 18	\$	106 378	\$	142 571
Commercial Bait Number Amount	\$ 7 7	\$ 6	\$	2 2	\$	19 19	\$	34 34
NWHI * Number Amount	==				\$	29 29	\$	29 29
TOTAL Number Amount	\$ 817 20,447	\$ 469 11,366	\$	430 10,770	\$	1,369 33,151	\$	3,085 75,734

^{*} Northwestern Hawaiian Islands (Leeward Islands)

^{**} Fractional amount (less than a dollar) excluded

LICENSES
FRESHWATER FISHING

TYPE HAWAII		MAUI	KAUAI	OAHU	STATEWIDE
Resident Number Amount	\$ 8	2 \$ 8	703 \$ 2,546	5,450 \$ 19,635	6,157 \$ 22,197
Non-Resident Number Amount		Ξ	\$ 15 \$ 110	\$ 321	\$ 431
Tourist Number Amount	=	==	93 \$ 337	\$ 104 \$ 374	\$ 197 \$ 711
Juvenile Number Amount	\$ 3		\$ 149 \$ 215	1,358 \$ 1,945	1,509 \$ 2,163
Senior Citiz Number Amount	en 1	1	56 	196 	254
Duplicate Number Amount	Ξ	==	\$ 3 1	\$ 20 \$ 10	\$ 23 \$ 11
TOTALS Number Amount	5 \$ 11	3 \$ 8	1,019 \$ 3,209	7,173 \$ 22,285	8,200 \$ 25,513

^{*} Fractional amount (less than a dollar) excluded

LICENSES

HUNTING

TYPE	- 1	HAWAII		MAUI		KAUAI		OAHU	S	PATEWIDE
Resident		2 035		2 244		2 227		3,300		11,696
Number	•	3,915	Ċ	2,244	Ċ	2,237 16,025	¢	23,549	\$	83,757
Amount	Ş	28,044	Ş	16,139	Ş	10,025	Y	23,343	4	03/13/
Non-Residen	t									400
Number		223		142		13		44	•	422
Amount	\$	3,193	\$	2,043	\$	186	\$	634	\$	6,056
Senior Citi	zen									445
Number		140		139		49		117		445
Amount										
Duplicate				100				26		212
Number		49		69		59		36	^	213 105
Amount	\$	25	\$	34	\$	29	\$	17	\$	105
TOTALS				-						
Number		4,327		2,594		2,358		3,497		12,776
Amount	S	31,262	\$	18,216	\$	16,240	\$	24,200	\$	89,918

^{*} Fractional amount (less than a dollar) excluded

LICENSES AND PERMITS

MISCELLANEOUS

TYPE	STATEWIDE
Game Bird Farm Number	32
Amount	\$ 32
Aquarium Fish Number Amount	185 —
TOTALS	
Number	217
Amount	\$ 32

BUREAU OF CONVEYANCES

The Bureau of Conveyances is responsible for maintaining accuracy and indefeasibility in recordkeeping and for eliminating errors and confusion in land title registration.

Documents Received

During fiscal year (FY) 1985-86, 236,769 documents were received by the Bureau, compared to 202,813 received in FY 1984-85. The Regular Registration System received 156,938 documents and the Land Court system received 79,831 documents this FY, compared to 140,001 and 62,812 received last FY, respectively.

Transfer Certificate

There were 11,474 new transfer certificates issued under the Land Court system, a slight increase over the previous FY of 11,192. Low interest rates on mortgages may have contributed to the increase in transfer certificates and documents.

Foreclosure Documents

Foreclosure documents on condominium and real property totalling 440 were recorded valued at \$134,396,431 in both the Land Court and Regular Registration Systems. Foreclosures in the regular system totalled \$69,688,862, and included:

Apartment leases									\$24,964,191
Apartment deeds									13,535,889
Other leases									19,115,805
Other deeds									12,072,977

Revenue for FY 1985-86

The Bureau received a total of \$1,557,369 which included \$902,447 from the Regular System and \$654,922 from the Land Court System. This is an increase of more than \$2,000 over last FY. The breakdown of all receipts are shown below.

Receipts from Regular System:	
Recording fees	. \$849,465
Certified copies	52,780
Service charge on checks	202
_	\$902,447
Receipts from Land Court System:	
Filing fees	. \$414,464
Transfer certificates	240,458
	\$654,922

Receipts from Conveyance Tax:

In addition to the receipts, the Bureau collected a conveyance tax amounting to \$1,947,474, nearly \$100,000 more than the amount collected in FY 1984-85.

Act 246, SLH 1986, Relating to Land Court Registration authorizes the computerization of the Land Court title system and permits the Bureau to microfilm every document and return the originals to the owners. The microfilming will reduce the processing time to about 10 days and remedy the storage space problem currently existing in the Bureau of Conveyances.

RECEIPTS OF THE BUREAU OF CONVEYANCES

Fiscal		Receipts	
Year	Regular System	Land Court System	Total
1976-77	598,363	233,110	831,473
1977-78	707,056	259,676	966,732
1978-79	804,281	284,340	1,088,621
1979-80	907,147	327,541	1,234,688
1980-81	803,293	4.70,050	1,273,343
1981-82	753,842	413,397	1,167,239
1982-83	734,756	460,247	1,195,003
1983-84	848,104	562,184	1,410,228
1984-85	782,073	543,071	1,325,14
1985-86	902,447	654.922	1,557,369
TOTAL	\$8,403,426	\$4,417,526	\$12,820,892

DOCUMENTS RECEIVED AND CERTIFICATES OF TITLE ISSUED

	Doc	Land Court Certificates		
riscal	Total	Regular System	Land Court System	of Title Issued
1976-77	169,627	116,998	52,629	8,006
1977-78	191,307	131,231	60,076	10,133
1978-79	210,394	145,649	64,745	11,324
1979-80	228,471	157,008	71,463	12,323
1980-81	191,115	136,674	54,441	8,599
1981-82	164,810	121,217	43,593	6,630
1982-83	187,310	131,701	55,609	8,932
1983-84	219,238	152,470	66,768	11,107
1984-85	202,813	140,001	62,812	11,192
1985-86	236,769	156,938	79,831	11,474
TOTAL	2,151,470	1,493,861	531,985	107,356

VALUE OF PROPERTY TRANSFER IN HAWAII (in thousands of dollars)

		nolulu	На	waii		Maui	К	auai	State
Fiscal Year	1 of	Value	1 of	Value	of State	Value (\$1,000)	% of State	Value (\$1,000)	(\$1,000)
	State	(\$1,000)	State	(\$1,000)		191,111			
1976-77	71.4	1,264,697	10.0	173,325	14.6	258,798	4.0	74,493	1,771,313
1977-78	67.3	1,743,379	9.1	235,370	19.1	496,684	4.5	116,519	2,591,952
		2,426,836	10.6	394,304	18.8	695,768	5.1	190,370	3,709,278
1978-79	65.5	3,089,239	13.1	591,763	12.5	565,806	6.2	282,919	4,529,727
1979-80	68.2		12.8	506,007	14.3	566,960	9.5	374,451	3,960,014
1980-81	63.4	2,512,596	12.0			252 045	7.7	221,538	2,892,632
1981-82	69.5	2,011,748	10.6	306,301	12.2	353,045		-	2 027 466
1982-83	62.9	1,903,777	9.7	293,964	21.0	637,263	6.4	192,462	3,027,466
1983-84	69.0	2,474,132	14.4	514,705	12.3	441,485	4.3	155,003	3,585,325
		2,540,240	9.3	346,374	17.5	649,113	4.9	183,929	3,719,658
1984-85 1985-86	68.3	2,623,227	10.1	392,623	13.9	541,935	8.6	335,561	3,893,34

DIVISION OF FORESTRY AND WILDLIFE

The Division of Forestry and Wildlife (DOFAW) is responsible for the management of forests and wildlife resources.

SIGNIFICANT ACTIVITIES

A Million Trees of Aloha. This noteworthy project to commemorate the 100th Anniversary of the arrival of the first Japanese contract laborers (Kanyaku Imin) to Hawaii and the 150th Anniversary of the Hawaiian Sugar Planters' Association (HSPA) was culminated with a ceremonial tree planting at Koloa, Kauai on December 6, 1985. The tree planted by First Lady Jean Ariyoshi and Mr. John "Doc" Buyers, President of C. Brewer and Company, co-chairpersons for the project, was the last of 1,027,039 trees planted throughout the State. A substantial number of these trees were propagated at the Kamuela Central Tree and respective district nurseries.



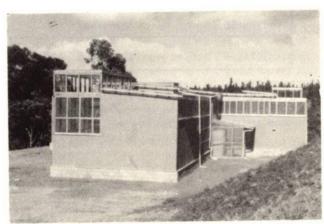
Kauai Mayor Tony Kunimura, First Lady Jean Ariyoshi, and Mr. John "Doc" Buyers (President of C. Brewer and Co.) plant the last of 1,027,039 trees planted throughout the State for the "A Million Trees of Aloha" project.

"A Million Trees of Aloha" won the National Arbor Day Foundation's award for widespread community support of the program in the "Corporation and Institution (State) category. It was also nominated for the "Take Pride in America" Awards Program which recognized projects that foster the "stewardship" of lands and natural resources throughout the United States.

Eucalyptus Harvest for Electricity Generation. A license to harvest some 2,000,000 cubic feet of Eucalyptus saligna and E. robusta issued to BioPower Corporation was terminated and reissued to Puna Sugar Company. The total harvest during the year was 53,220 green tons valued at \$91,116.

Endangered Plant Species. The Fish and Wildlife Service listed six plants during the year bringing the total to 17 taxa now listed as endangered for the State of Hawaii. Listed during the past year were Gardenia brighamii, Santalum freycinetiannum var. lanaiense, Argyroxiphium sandwicense var. sandwicense, Achyranthus rotundata, Hibiscadelphus distans, and Scaevola coriacea.

Endangered Animal Species Facility. A new Endangered Species Facility for the breeding of 'Alala, the Hawaiian crow, is being developed at Olinda, Maui. Phase I of this project included modification of existing buildings and construction of two aviaries. Construction of the aviaries was made possible by State funding for the purchase of materials and supplies and the commitment by the U.S. Army 84th Engineer Battalion to undertake the construction activities.



ALALA (Hawaiian crow) facilities constructed at Olinda, Maui in cooperation with U.S. Army, Western Command. These custom built structures are designed to enhance Alala reproduction capabilities.

PRODUCTS DEVELOPMENT PROGRAM

The Division provides tree seedlings for public and private use, establishes and maintains forest plantations, administers forest product inventories and sales, and provides technical assistance to land managers.

Nursery Production

Kamuela Central Tree Nursery. The total nursery containerized seedlings production was 677,449, of which 337,339 seedlings were grown and distributed for biomass, timber, ornamental, and Christmas tree production, 340,110 seedlings for windbreak plantings, and 2,451 native species seedlings. The biomass, timber and windbreak seedlings included 70,605 young koa.

Kauai District Nursery. Distribution of Kauai nursery grown planting stock was 68,198 seedlings of which 52,635 were ornamentals; 3,217 were native species and 12,346 were timber and windbreak species.

Oahu District Nursery. The nursery produced and distributed 26,887 seedlings of kukui, milo, royal poinciana, Australian red cedar, areca palm, jacaranda, kou, bottlebrush, Norfolk Island pine and ironwood species. The majority were grown for distribution to private landowners, schools and scout organizations. Several species was used for planting, replanting, and erosion control.

Maui District Nursery. The Maui District Nursery produced 87,374 trees primarily for "A Million Trees of Aloha."

Hawaii District Nursery. A total of 56,681 plants were grown and distributed last fiscal year. Timber seedlings for State reforestation planting and windbreak—23,763, ornamental plants-25,201, and native plants-7,717.

Tree Planting and Timber Stand Improvement

Kauai District. Reforestation work accomplished included site preparation of 39 acres (35 acres in the Lihue-Koloa Forest Reserve and 4 acres in the Puu Ka Pele Forest Reserve) and tree planting of 4 acres in the Puu Ka Pele Forest Reserve. Timber stand improvement included 6 acres of replanting, and 2 acres of weeding.

Oahu District. The district planted 2 acres in the Ewa and Kuliouou Forest Reserves and replanted 4 acres of Norfolk Island pines to reestablish 2 Christmas tree orchards in the Waiahole and Honolulu Watershed Forest Reserves. Other accomplishments included 14 acres weeded and 14 acres fertilized within the Mokuleia, Waiahole and Honolulu Watershed Forest Reserves.

Maui District. All tree planting and timber stand improvement work was concentrated in the West Maui Forest Reserve at Kahakuloa. These included site preparation of 11 acres and tree planting of 52 acres.

Hawaii District. Site preparation for timber and biomass plantings totalled 222 acres and tree planting for biomass and timber production totalled 404 acres. A total of 650 acres were fertilized, 44 acres thinned, and 89 acres weeded.

Forestry Assistance. The Division continued to provide technical assistance in forestry matters to private landowners and processors of forest products. Accomplishments included: (1) 109 management plans encompassing 12,255 acres; (2) recommendations for dispersed recreation on 2,277 acres; (3) advice on wildlife habitat improvement covering 248 acres; and (4) watershed improvement work affected 13,341 acres.

In cooperation with several agencies within the U.S. De-



Service forester provides technical assistance in forestry matter to private landowners. Site inspections help in development of management plans to improve forest land capabilities.

partment of Agriculture, the Division developed informational brochures and technical specification for tree planting and wildlife habitat development activities. These activities are recommended under the Conservation Reserve Program (CRP). The CRP was authorized under the Food Security Act of 1985 (Farm Bill) to help farmers prevent or control critical soil erosion.

PROTECTION AND ENHANCEMENT PROGRAM

The program objective is to protect, conserve and enhance forest and wildlife resources. Some of the activities included watershed and wildlife habitat protection, fire suppression, erosion control, forest pest management, and the protection and preservation of unique native plant and animal species.

Fire Management

Statewide. A fire team was developed within the Division to provide instructions on fire organization, behavior, suppression techniques and fireline safety to Division personnel as well as to other agencies with fire suppression responsibilities.

Kauai District. The Kauai County Fire Department became the first forestry district to enter into a cooperative fire protection agreement with the Department of Land and Natural Resources.

Under a separate agreement with the U.S. Forest Service (USFS), two surplus fire trucks from the Shasta-Trinity National Forest in Northern California were made available at no cost for rural fire control. One truck is being prepared for use by the Division and the other is assigned to the Kauai County Fire Department.

Maui District. The Maui County Fire Department received a Rural Community Fire Protection grant (administered by the USFWS) of \$6,400. The priority of the grant is for organizing, training, and equipping rural fire companies for improved fire protection.

Hawaii District. The Division fought three fires which burned a total of 22,560 acres. The largest was the Puu Anahulu fire in South Kohala that lasted from September 8 to 23, 1985, burning 19,500 acres and cost the Division approximately \$265,000 to control.

To aid in the Division's wildland fire suppression, six vehicles were acquired through the USFS Rural Community Fire Protection programs. These vehicles will be fitted with 400-gallon pumper units to suppress wildfires in rugged terrain.

Forest Pest Management

Pest management efforts centered around the two forest weeds: banana poka and clidemia.

In banana poka control, two more shipments of candidate biological control insects from Colombia were received. These represent the fifth and sixth shipments since the start of the project in December 1984. Experiments with the insects are conducted in a quarantine facility at Volcanoes National Park, Hawaii, by the U.S. Forest Service. Work on one candidate biological control disease continued at the U.S. Department of Agriculture's Plant Disease Research Laboratory in Maryland. Both exploration and collection of work for insects and disease are being carried out by a University of Hawaii entomologist and a plant pathologist through a cooperative agreement with the Division.

A new banana poka infestation at Waiakoa, Maui, was surveyed from the air. The survey of the 1.5 square miles of inaccessible terrain was conducted jointly by the Division and the State Department of Agriculture (DOA). The aerial observers found three areas of banana poka plants totalling 1.75 acres.

In clidemia control, the testing of insects in Trinidad was phased out at the end of the fiscal year. Final testing is to be done at the DOA's Honolulu quarantine facility.

On Kauai, Clidemia hirta eradication efforts were concentrated in the Lihue-Koloa Forest Reserve (Kahili Mt.) and the Nonou Forest Reserve. It appears that the insect Liothrip urichi released at the Kahili site is an effective biological control for clidemia. The Nonou Forest Reserve infestation was monitored and the clidemia plants uprooted along the Kuamoo-Nonou trail.

Beautification and Native Plant Species

Kauai District. Under "A Million Trees of Aloha," Kauai District distributed 148,321 seedlings.

Maui District. Maui District propagated 87,374 trees in the Kahului Tree Nursery mainly for "A Million Trees of Aloha". A selection of 28 species of ornamental trees were propagated for eventual distribution to beautification projects including street tree plantings, park beautification, school grounds beautification, and other projects.

Keanae Arboretum continued to be a popular stop along the Hana Highway. Many visitors and residents come to view and study the excellent collections of Hawaiian taros, bananas, sugar canes, and medicinal plants in a beautiful natural setting.

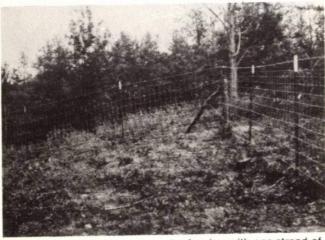
In the fall of 1985, a one acre area containing Hibiscus brackenridgei was fenced off by the Friends of Native Hawaiian Plants. The land is separated from the surrounding pasture land and grazing.

Hawaii District. Over 1,500 mamane seedlings were planted on a 4-acre portion of Mauna Kea to control soil erosion and to improve the native forest.

Threatened and Endangered Plant Species

Kauai District. Kauai hau kuahiwi (Hibiscadelphus distans) a tree specimen confined to Koaie Valley in the Na Pali Kona Forest Reserve was officially designated as an endangered plant species.

Maui District. A 1,500-foot length fenceline was constructed at the 34-acre Pa'upa'u Plant Sanctuary for the protection of the Gouania hillebrandii, an endangered species and the Spermolepis hawaiiensis.



Paupau Plant Sanctuary Hog wire fencing with one strand of barbed wire on top.



Paupau Plant Sanctuary "V" type, stockproof, walkthrough gate along Lahainaluna Trail.

Within three exclosures on Molokai, 40 Kokia drynarioides seedlings, between 8 and 18 inches tall, were planted and maintained.

Hawaii District. The remaining three Hawaiian vetch (Vicia menziesii) exclosures were completed and 96 germinating Vicia menziesii seeds were planted and maintained within five exclosures—three in the Kau Forest Reserve and two in the Hilo Forest Reserve. To protect these seedlings from rodent, insect, and other invertebrate damage, trial cages and chemicals are being used.

The one-acre exclosure at Puu Waawaa was planted with 44 kokio (Kokia drynarioides) seedlings. After four months, 18 kokio trees survived.

Three silversword (Argyroxiphium sandwicense var. sandwicense) seedlings planted at the Pohaku Arboretum did not survive. The seedlings are propagated at the Hawaii Volcanoes National Park due to its more favorable climate.

A total of 44 koai'a trees (Acacia koaia) were planted within Koaia Sanctuary by the Sierra Club.

Botanical surveys were conducted on the Kealakekua Bay State Historical Park and the Kamoa Point State Historical Park to determine the existence of threatened or endangered species.

Threatened and Endangered Animal Species

Waterbirds. Annual inventories to determine the populations of endangered Hawaiian ducks, coots, stilts, and gallinules and other waterbirds were made in July and January. The results were:

July 1985 January 1986 231 245

Hawaiian Duck (Koloa)

Hawaiian Coot	2,294	1,973
(Alae Keokeo) Hawaiian Stilt (Aeo) Hawaiian Gallinule (Alae Ula)	1,492 115	1,002 250



Endangered Hawaiian stilt (AE'O) guards nest containing four eggs. State wildlife sanctuaries on Oahu, Maui, and Kauai protect habitats for this and other native waterbirds.

These counts fall within the range of counts conducted over the past 10 years.

A five-year study was completed on the effectiveness of artificial Hawaiian Stilt floating nest. The study provided a successful technique for averting nest losses by flooding.

Seabirds. A total of 1,853 seabirds was recorded during the annual "save our shearwater" program on Kauai during October and November. Ninety percent of the recovered birds were banded and successfully returned to the wild. These birds included 1,653 Newell's Shearwaters, five Darkrumped Petrels, six Wedge-tailed Shearwaters and four White-tailed tropicbirds. A brochure was designed to assist architects, planners and resort managers in techniques to reduce the light attraction problem.

Through a cooperative program between the Division and Sea Life Park, 56 young Wedge-tailed Shearwaters (Uau kani) were taken to Sea Life Park by the public. These shearwaters, most with downy feathers still attached, left their island wildlife sanctuaries and due to disorientation, strong head winds, or general weakness landed on the main island of Oahu. Trained personnel at Sea Life Park examined the birds for injuries, weighed, banded, fed and released the Uau kani when they were determined to be capable of flight.

Palila. Palila counts on Mauna Kea were made during the breeding (July 1985) and nonbreeding (February 1986) seasons. The number was estimated at 1,867 and 2,221 birds, respectively. The counts were made in a joint effort with the U.S. Fish and Wildlife Service.

Wildlife Sanctuaries

The Division manages over 81,000 acres of State Wildlife Sanctuaries. A new sanctuary at Pauwalu Point on Maui was established to protect seabirds and other wildlife. Management of these sanctuaries included periodic inventories, predator control, and the maintenance of fences, water pumps, and public use facilities.

Hawaiian Crow ('Alala) Restoration

Comprehensive field surveys conducted in conjunction with the U.S. Fish and Wildlife Service in Spring 1986 detected only five to eight crows. The captive population in the State's Endangered Species Facility at Pohakuloa, Hawaii, remained at nine birds.

Behavioral studies by Dr. Fern Duvall continued to reveal new information on 'Alala. Many changes in the management of the birds resulted in increased nesting activity in all four pairs. This improved situation was to a large extent due to cooperation from the Army, who decreased training activities that disturbed the crows. Despite improved conditions only three eggs were produced, and these failed to develop.

As mentioned earlier, captive birds will be transferred to Olinda, Maui, for a more suitable rearing environment.

Hawaiian Goose (Nene) Restoration

Studies of Hawaii's State bird, the Nene, continued. Methods were developed for the control of mongoose along with fencing, supplemental feeding, and development of water systems in key areas of Nene habitat on Hawaii. A survey on Maui showed an estimated population of 129 Nene.

Thirty-eight goslings from 12 pairs of captive Nene were reared at the Pohakuloa facility; 17 of these goslings were later given to Hawaii Volcanoes National Park for crossfostering and released with Nene pairs there. Seventeen goslings were released at State Nene sanctuaries and four were retained to add to the captive flock.

Northwestern Hawaiian Islands Management

Through coordination with the U.S. Fish and Wildlife Service and cooperation of the Division of Aquatic Resources, seabird surveys were conducted at French Frigate Shoals. Landing on Nihoa and Necker Islands were not pos-

sible due to heavy, rough seas.

The rodent population on Green Island, Kure Atoll, a State wildlife sanctuary, had increased significantly in numbers creating a threat to populations of seabirds and plants on the island. The increased rat population also became a health concern for the Coast Guard personnel stationed there. A concerted effort to reduce the Polynesian rat (Rattus exulans) population was started this past year with assistance from the Department of Health's Vector Control Branch and the Coast Guard. During the initial phase of the program, the house mouse (Mus musculus) was observed for the first time on the island.

Kahoolawe Management

A cooperative program continued between the State and the U.S. Navy for natural resource restoration. A field survey was conducted to assess the impact of military training activities on wildlife. The need for drastic reduction or elimination of feral goats on Kahoolawe is being emphasized.

RECREATION PROGRAM

The Division builds and maintains hiking trails, access roads, shelters, vista points, hunting grounds, and other recreational conveniences.

District Projects

Kauai District. A new right-of-way was established to the Nonou Forest Reserve from Kuamoo Road (Highway 580), marking the first successful effort to acquire private land needed to complete a trail and open access to a State forest reserve. A new trail was developed and fencing along the right-of-way was installed.

Within Na Pali Kona Forest Reserve, the following proj-

ects were completed:

(1) Two vista points with iron pipe guard rails and an emergency helicopter landing site on the Awaawapuhi Trail. (2) A vista point and an emergency helicopter landing site

at the beginning of the Milolii Ridge Trail.

(3) A footbridge on Mohihi-Waialae Trail.

(4) A vista point at the Kawaikoi Stream Trail.

Also 57.9 miles of roads and 64.7 miles of trails were maintained.

Oahu District. On Oahu, 54 miles of trails and 30 miles of forest roads were maintained.

Over 150 permits for hiking and camping were issued to the public. Most of these permits were issued for the Kuao-kala/Mokuleia Forest Reserves. Because of the popularity of the area, the access roads were kept open and a section of road improved to alleviate erosion problems and steepness.

Maui District. On Maui 8.6 miles of forest trails and 91.8 miles of forest roads were maintained primarily within the Kula and Kahikinui Forest Reserves where public hunting and recreation are popular. A total of 14.9 miles of forest fences were maintained.

On Molokai, 93.1 miles of forest roads and 5.1 miles of fenceline were maintained. This road provides access to important public hunting areas and to the popular recreation stops at the Lua Moku Iliahi (Sandalwood Measuring Pit) and the Waikolu Lookout and Picnic areas.

Hawaii District. During the past fiscal year, 19 miles of forest roads and 11.4 miles of forest fences were maintained and 1.3 miles of forest fences constructed.

Game Research and Surveys

Birds and Game Mammals. Division biologists conducted research and surveys on game bird and mammal resources from which to base management and regulatory decisions. Aerial surveys were used on Hawaii (mouflon and feral sheep), Lanai (mouflon sheep and axis deer), Molokai (axis deer), and Kauai (feral goats) to obtain population estimates in the public hunting areas.

The game population estimates obtained prior to the public hunting seasons were as follows: (1) 501 mouflon and 170 feral sheep and/or hybrid sheep on or around Mauna Kea Game Management Area on Hawaii; (2) 2,874 axis deer and 1,027 mouflon sheep on the Lanai Cooperative Game Management Area; (3) 1,701 feral goats and 320 black-tailed deer on Kauai's public hunting areas; and (4) 212 axis deer on the Molokai Cooperative Game Management Area.

Game Bird Study. The Erckel's francolin life history study was completed. It describes the population distribution, productivity, habitat characteristics, foods, limiting factors, and behavior of this well established game bird. This study will be useful for management purposes, and to aid in hunter recreational success.

A new game bird habitat improvement study was initiated in the Kekaha Game Management Area, Kauai, to find ways of controlling undesirable vegetation and replacing it with desirable, low maintenance grasses. Several control methods were tried, and experimental planting trials were made with two candidate grass species.

Rock Wallaby Study. The study of rock wallabies on Oahu continued for the fifth year. Preliminary indications were that a population decline was in progress. This was thought to be due to drought conditions and predation from dogs. Adjacent areas were surveyed, but no evidence of recent wallaby activity was found.

Public Hunting

Game Mammals. Statewide, game mammal hunters made 16,394 trips into public hunting areas and harvested a total of 2,742 mammals. The harvest was composed of 1,224 feral pigs, 274 feral goats, 18 black-tailed deer, 166 mouflon sheep, 321 feral sheep, and 739 axis deer.

Game Birds. The game bird season which started in November and ended in January resulted in 10,722 hunter trips for a total harvest of 9,768 game birds. The game bird harvest consisted of: 2,528 California quail, 124 Gambel's quail, 192 Japanese quail, 934 ring-necked pheasant, 218 Kalij pheasant, 1,920 chukar partridge, 608 grey francolin, 499 black francolin, 1,963 Erckel's francolin, 348 wild turkey, 122 lacenecked dove, and 312 barred dove.



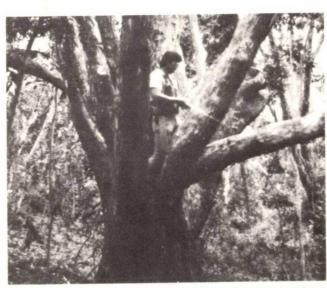
Student summer hire removes weed growth from around a game bird watering device to prevent predation by mongooses and cats on a public hunting area on Molokai.

SUPPORT SERVICES

Support services include scientific research, technology transfer, and telecommunication design and support. The Institute of Pacific Islands Forestry of the U.S. Forest Service provides research assistance to the Division.

Research and Technology Transfer

Multi-Resource Forest Inventory. A final report of the Molokai Multi-Resource forest inventory was published as a joint effort by the Division of Forestry and Wildlife and the U.S. Forest Service. The inventory collects detailed data on tree growth and mortality, forest biomass, wildlife, noxious weeds, watershed health, native ecosystems, and land use trends. This information provides a comprehensive planning and assessment data base for land use decisions involving forest resources.



Forestry technician collecting essential tree data as part of the statewide multi-resource forest inventory.

Federal grants were secured to help the State continue the multi-resource forest inventory work on Oahu and Kauai. The aerial photo interpretation portion of the Oahu project was completed and the Oahu field work and the Kauai aerial photographic analysis were undertaken. Reports for both islands will be published upon completion. Meetings with federal officials are being held to review possibility of funding a similar project for Maui.

Koa Research. A koa (Acacia koa) research project to study the koa growth, mortality, and stand structure in reforestation areas was completed. Koa is the most commercially valuable native Hawaiian forest tree. This study produced the long term growth data for koa which was not available in the past. The data is now being analyzed and will be published in a U.S. Forest Service research document.

Training Assistance. The Division helped organize and teach a two-week forestry management training session for foresters from other Pacific islands including the Federated States of Micronesia, the Republic of Belau, the Marshall Islands, the Cook Islands, Saipan, and Guam.

CONSTRUCTION AND MAINTENANCE OF ROADS, TRAILS, AND FENCES Fiscal Year 1985-1986

	Mile	s of Constru	uction	Miles	s of Mainter	nance
Island	Roads	Trails	Fences	Roads	Trails	Fences
Hawaii Maui Molokai Oahu Kauai Lanai	0 0 0 0.1 0	0 0 0 0 0.5	1.3 0.5 0 0 0.5	29.0 119.4 151.6 30.9 57.9 12.5	0 8.6 3.5 54.7 64.8	0 20.8 11.4 100.6 13.7
Total	0.1	0.5	2.3	401.3	131.6	146.5

FOREST AND BRUSHLAND FIRES IN MUTUAL AID (CM-2) PROTECTION AREAS Fiscal Year 1985-1986

			Number		
Item	Hawaii	Maui/Molokai	Oahu	Kauai	Total
Total No. of Fires					
(1986 Sum)	63	32	3	13	111
No. of Fires by Cause:					
Lightning	1	0	0	0	1
Campfire	0	2 5	0	2	4
Smoking	11	5	1	1	18
Incendiary	13	3	0	1	17
Debris Burning	15	5	0	5	25
Equipment Use	3	2	0	1	6
Children with Matches	1	6	0	0	7
Miscellaneous	19	9	2	3	33
No. of Fires by Size-Class:					
Less than 1 acre	44	26	3	10	83
1 to 9 acres	13	6	0	3	22
10 to 99 acres	3	0	0	0	3
100 to 299 acres	1	0	0	0	1
300 to 999 acres	0	0	0	0	0
More than 1,000 acres	2	0	0	0	2
Total Acres Burned	5,720	16.5	0	7.7	5,744.

WILDLIFE HABITAT IMPROVEMENT, NOXIOUS PLANT CONTROL, EROSION CONTROL AND ARBORETA MAINTENANCE Fiscal Year 1985-1986

	Wildlife Habitat Improvement	Acres of Accomp. Noxious Plant Control	Erosion Control	Arboreta Maintenance
Island Hawaii Maui Molokai Oahu Kauai Lanai	4.5 4.0 13.0 1.0 102.0 22.0	3 5 0 0 35 0	4 0 0 0 0 6	188 82 0 114 211 0
TOTAL	146.5	43	10	595

NUMBER OF GAME MAMMALS HARVESTED FROM PUBLIC HUNTING AREAS Fiscal Year 1985-1986

			Num	ber Harvest	.ed		
Mammal	Hawaii	Kauai	Maui	Molokai	Oahu	Lanai	Total
Lacutations				0.1	2	0	672
Pig, Boar	303	243	103	21		0	552
Pig, Sow	256	210	77	9	0	0	18
Blacktail Deer,	0	18	0	0	0	U	10
Buck				0	0	0	169
Goat, Billy	41	126	0	2	-	0	105
	21	81	0	3	0		123
Goat, Nanny		0	0	0	0	61	
Mouflon Sheep, Ram		0	0	0	0	0	43
Mouflon Sheep, Ewe	209	0	0	0	0	0	209
Feral Sheep, Ram		0	0	0	0	0	112
Feral Sheep, Ewe	112	0	0	0	0	455	455
Axis Deer, Buck	0		0	0	0	284	284
Axis Deer, Doe	0	0	0				
	- 047	678	180	35	2	800	2,742
Total	1,047		190	68	0	927	2,718
(1985 Sum)	819	714	0	120	28	802	2,120
(1984 Sum)	532	638	0	120			4
C II.mbox-							16 204
No. of Hunter- Trips	4,550	7,730	607	143	65	3,299	16,394
Mammals/Hunter Trip	.23	.08	.29	.24	.03	0.24	0.16

REFORESTATION PROGRAM IN STATE FOREST RESERVES Fiscal Year 1985-1986

			Acres	of Accomp	lishment		
Island	Site Prep.	Planting	Replant.	Weeding	Fertilizing	Pruning	Thinning
Hawaii	190	404	0	89	650	0	44
Maui	11	52	0	20	0	0	10
Molokai	0	0	0	0	0	0	0
Oahu	0	3	4	14	14	0	0
Kauai	39	4	6	2	0	0	0
Total	240	463	10	125	664	0	54

SEEDLINGS PRODUCED AND DISTRIBUTED Fiscal Year 1985-1986

Common Name	Quantity
imber, Windbreak, Christmas Tree and Biomass Seedlings:	
(3	70,627
oa (<u>Acacia koa</u>) iver-Oak Casuarina (Casuarina cunninghamiana)	43,270
each Shortleaf Ironwood (Casuarina equisetifolia)	44,335
each Shortlear Fronwood (Casualina equisetiloria)	20,591
ugi(Cryptomeria japonica)	72,603
exican Cypress (<u>Cupressus lusitanica</u>) onterey Cypress (<u>Cupressus macrocarpa</u>)	24,847
emon-Gum Eucalyptus (Eucalyptus citriodora)	1,325
indanao-Gum Eucalyptus (<u>Eucalyptus Citilicuola</u>)	6,739
luegum Eucalyptus (Eucalyptus globulus)	5,785
osegum Eucalyptus (Eucalyptus grandis)	239,536
ray Ironbark Eucalyptus (Eucalyptus paniculata)	1,150
lackbutt Eucalyptus (Eucalyptus pilularis)	1,810
obusta Eucalyptus (Eucalyptus robusta)	4,032
aligna Eucalyptus (Eucalyptus saligna)	17,316
ed-Ironbark Eucalyptus (Eucalyptus sideroxylon)	371
ed-Tronbark Eucalyptus (Eucalyptus Sideroxyton)	200
ueensland-Maple (Flindersia brayleyana)	13,473
aperbark (Melaleuca leucadendron)	17,699
live (Olea europaea)	41,773
oblolly Pine (Pinus taeda)	16,331
lash Pine (Pinus elliottii)	24,159
onterey Pine (Monterey radiata)	603
onkey-pod (Pithecellobium saman)	400
edwood (Sequoia sempervirens)	20,000
thel Tamarisk (Tamarisk aphylla)	86
rushbox (Tristania conferta)	1,017
orfolk-Island-Pine (Araucaria heterophylla)	6,591
11 Other Species	696,669
ubtotal	0507005
Community Beautification and Native Species Seedlings"	
Ornamental and Exotic Species	225,604
Native Species	27,942
nacive openies	
Subtotal	253,546

GAME BIRDS HARVESTED FROM PUBLIC HUNTING AREAS Fiscal Year 1985-1986

			Numb	er Harves	sted		
Bird Species	Hawaii	Kauai	Maui	Molokai	Oahu	Lanai	Total
California Valley Quail	2,489	0	30	9	0	0	2,528
Gambel's Quail	107	0	0	0	0	17	124
Japanese Quail	182	1	0	0	0	9	192
Ring-Necked Pheasant	176	335	253	1	2	167	934
Nepal Kalij Pheasant	218	0	0	0	0	0	218
Chukar Partridge	1,068	11	807	1	0	33	1,920
Grey Francolin	158	0	0	79	0	371	608
Black Francolin	302	51	0	146	0	0	499
Erckel's Francolin	1,268	584	0	0	74	37	1,963
Wild Turkey	347	0	0	0	0	1	348
Lace-Necked Dove	6	77	0	24	12	3	122
Barred Dove	0	104	0	146	8	54	312
Total	6,321	1,163	1,090	406	96	692	9,760
(1985 Sum)	4,033	858	0	0	29	0	4,920
(1984 Sum)	5,333	939	526	1,083	44	565	8,490
No. of Hunter-Trips	5,166	2,651	1,011	296	929	669	10,722
Birds/Hunter-Trip	1.22	0.43	1.07	1.37	.10	1.03	.91
No. of Hunting Hours	21,848	11,758	4,520	765	4,392	2,199	45,482
Hours/Bird	3.45	10.11	4.14	1.88	45.75	3.17	4.65
Hours/Hunter-Trip	4.22	4.43	4.47	2.58	4.72	3.28	4.24

MISCELLANEOUS (NO CHARGE) PERMITS Fiscal Year 1985-1986

Туре	Number
Scientific Collecting Permit	22
Permit to Keep Wildlife for Educational Purposes	16
Permit for Entry on Bird Sanctuaries	17
Permit to Keep Birds in Captivity	16
Permit to Take and Destroy Birds or Mammals Causing	
Damage to Crops or Constituting a Nuisance	63
Permit to Harvest Greenery for Personal Use	754
Hiking/Camping Permit	388
Total	1,276

OUTSIDE MONEY RECEIVED Fiscal Year 1985-1986

Source	An	ount
Forest Product Sales Hunting License Sales Other Minor Miscellaneous Sales, Rental and Charges Temporary Deposit Federal Assistance: Cooperative Forestry Assistance Act Pittman-Robertson Wildlife Restoration Endangered Species Act - Plants Endangered Species Act - Wildlife Recovery of Indirect Cost Late Refund for Prior Year Expenditure Rural Community Fire Protection - County Fire Dept.	12 63	8,883 9,918 1,503 1,773 21,288 88,683 23,768 26,532 76,194 15,913 13,500
Total	\$1,0	97,955

DIVISION OF STATE PARKS, OUTDOOR RECREATION AND HISTORIC SITES

The Division of State Parks, Outdoor Recreation and Historic Sites administers the State park system, the historic preservation program and the State recreation planning program. Basic activities relating to these functions are divided among three programs of the State's budgeting system: Historic and Archaeological Places, Parks Recreation and General Administration for Culture and Recreation.

HISTORIC AND ARCHAEOLOGIC PROGRAM

The objective of this program is to preserve and make available for appreciation and study, places of historic and archaeological significance. Major activities include acquisition, planning, research, stabilization, preservation, rehabilitation, restoration, reconstruction and interpretation.

Land Acquisition

Kealakekua Bay Historical Park, Hawaii. Acquisition of the two remaining private lands was completed. A total of 66.642 acres were acquired for \$713,880. Government lands will need to be set aside to establish the proposed State historical park.

Planning and Development

Iolani Palace State Monument, Oahu. Phase XI of the restoration of Iolani Palace was completed and a contract for Phase XII was awarded. Under Phase XI, the Iolani Palace grounds were improved and restored, as closely as possible, to the Monarchy period. Phase XII calls for the restoration and renovation of the Kanaina Building into a visitor center.



The Reverend William Kaina blessing the Iolani Palace grounds during the ground-breaking ceremony for Phase XI of the Iolani Palace Complex Restoration.

Kealakekua Bay State Historical Park, Hawaii. The planning of the proposed State historical park at Kealakekua Bay is continuing. The report of the Advisory Committee for Kealakekua Bay State Historical Park was completed. It presented recommendations on the development, management, and operation of the proposed historical park. A contract for a topographic survey of the Napoopoo Area was awarded.

Royal Mausoleum State Monument, Oahu. Phase V of the restoration of the Royal Mausoleum Chapel was completed. About 75% of the chapel has been restored.

Lapakahi State Historical Park, Hawaii. A contract was awarded to pave the entry roadway and parking area at the park.

Historic Preservation Grants-in-Aid

Federal funds totalling \$97,310 were allocated for survey and planning of historic properties. Six projects were funded during this period.

inde	ed during this period.	
1.	Project Bishop Museum to continue the coordination and accession of the Bishop Museum archaeological inventory data bases with the State of Hawaii, Historic Sites Section.	Grant Amoun \$22,000
2.	Hawaii Heritage Center for the production of a calendar depicting the variety of archaeological sites found in the State of Hawaii.	\$12,350
3.	Thousand Friends of Kauai to undertake a cultural landscape inventory of the Hanalei and Waioli ahupuaa.	\$ 8,208
4.	June Cleghorn to organize and prepare the State historic sites inventory files for automation.	\$14,000
5.	Social Science Research Institute to undertake an historic archaeo- logical inventory of Kakaako, and prepare a sensitivity map for the district.	
6.	Maui, Hawaii and Kauai Counties to develop their own historic preservation ordinances. The ordinance is required for the Counties to continue participating in the federal historic preservation program.	

PARKS RECREATION PROGRAM

The program objective is to provide opportunities and facilities for nonorganized outdoor park recreation activities and for appreciation of unique natural features. Activities carried out in this program include the acquisition of desirable lands for park utilization; and the planning, development and management of coastal parks, inland parks and parks with outstanding natural features.

Planning and Development

Kahana Valley State Park, Oahu. The Kahana Advisory Council completed a conceptual development plan for this State park. The plan proposes to develop a park and to have

valley residents live in the park and work on specific park projects as part of a living cultural experience. The Kahana Advisory Council is now preparing detailed plans for visitor activities and park management needs.

Launiupoko State Wayside, Maui. Construction was completed on the installation of vehicular barriers as a safety measure along Honoapiilani Highway.

Sand Island State Recreation Area, Oahu. This project hooked up the park sewage system to the neighboring wastewater treatment plant.

Statewide Minor Improvements. Construction plans were completed and the contracts were awarded to provide land-scaping, sewage system improvements, and paving at Hapuna Beach State Recreation Area, Hawaii; and to reconstruct portions of the vandalized comfort stations at Waimanalo Bay State Recreation Area, Oahu. Construction plans were initiated for the proposed paving of the bus parking lot at Nuuanu Pali State Wayside, Oahu; sewage system improvements at Wahiawa Freshwater State Recreation Area, Oahu; and irrigation system improvements at Wahiakuli State Wayside, Maui.

Statewide Facilities for the Handicapped. Construction plans were completed and the contracts were awarded to provide ramps, walkways, and other handicapped facilities at Kalopa State Recreation Area, Hawaii. Construction drawings were also initiated for ramps and handicapped facility improvements at Kokee State Park, Kauai; Waianapanapa State Park, Maui; and Mauna Kea State Recreation Area, Hawaii.

A Million Trees of Aloha. As part of A Million Trees of Aloha project, a portion of Diamond Head State Monument on Oahu was reforested. The floor of Diamond Head Crater was the site of this reforestation effort which involved hundreds of volunteers including the military, the State, local businesses and inmates from the Oahu Community Correctional Center. Over 5,000 trees were planted, including endemic loulu palms, hala, Hawaiian kou, koa, wiliwili, milo, native hibiscus and kukui. A drip irrigation system was installed to water these trees.

Other Projects. The construction drawings were completed and contracts were awarded for these projects:



Construction plans were completed and the contract was awarded to develop another picnic area at Old Kona Airport State Recreation Area on the Big Island. The picnic area will be constructed at the north end of the park behind this section of the sand beach.

 Improvement of trail drainage and sewage system at Akaka Falls State Park, Hawaii; Construction of a food and beverage concession facility at Hapuna Beach State Recreation Area, Hawaii;

 Development of a water source for the proposed park development at Makua Beach, Kaena Point State Park, Oahu:

 Upgrading of existing facilities for possible concession operation at Kalopa State Recreation Area, Hawaii;

 Reconstruction of a warehouse structure for use as an environmental education center at Makiki Valley, Oahu;

 Construction of a comfort station and graded parking area for day use at Kahuku Area, Malaekahana State Recreation Area, Oahu;



A campground will be developed at this site in Waimanalo Bay State Recreation Area on Oahu. The construction plans were completed and the contract was awarded for this project.

 Construction of another picnic area and park security measures at Old Kona Airport State Recreation Area, Hawaii;

 Development of a water source at Fern Grotto Area, Wailua River State Park, Kauai;

Development of a picnic area at Waimea State Recreation Pier, Kauai;

 Development of a campground at Waimanalo Bay State Recreation Area, Oahu.

In addition, construction plans were completed for these projects:

 Relocation of the utility lines along Diamond Head Road and demolishing of unrequired structures at Diamond Head State Monument, Oahu;

• Phase I reconstruction of Hanalei Pier, Kauai.

The following new projects were initiated:

Planting of trees and shrubs at Waimea State Recreation Pier, Kauai under the Main Street Program in the beautification of Waimea town;

 Construction of playground fixtures at Honolulu Stadium State Recreation Area, Oahu with prison volunteers under the Community Service Work Program:

Boundary survey of Diamond Head State Monument,
Oahu:

 Design of a comfort station with showers at Lydgate Area, Wailua River State Park, Kauai;

 Design of a new picnic area, location of a new water source, and demolishing of abandoned structures at Kokee State Park, Kauai.

Construction plans were initiated for the following parks:

• Aina Moana State Recreation Area, Oahu;

Iao Valley State Wayside, Maui;

Kaiaka State Recreation Area, Oahu;
Lava Tree State Monument, Hawaii;

• Makena State Park, Maui;

· Wailoa River State Recreation Area, Hawaii.

Finally, a draft development plan was prepared for Kakaako Waterfront State Recreation Area, Oahu.

ADMINISTRATION FOR CULTURE AND RECREATION PROGRAM

The purposes of this program are to formulate overall policies and plans and to provide program direction and other administrative and housekeeping services. Major activities include general administration; planning; contract administration; reviewing projects for compliance with historic preservation procedures and for their impact on outdoor recreation resources and opportunities; administration of the Land and Water Conservation Fund and the National Historic Preservation Fund; and the preparation of the State Historic Preservation Plan and the State Recreation Plan.

State Recreation Planning

Land and Water Conservation Fund (LWCF). The State of Hawaii received federal grants from the LWCF Program amounting to \$427,764 for the following projects:

Project	Location	Grant Amoun	t
Lahaina Recreation Center	Maui	\$141,847	
(Project Amendment) Kapaa Swimming Pool Kekaha Gardens Park Waimanalo Bay State Park II Malaekahana State Park Development	Kauai Kauai Oahu Oahu	\$ 93,600 \$ 62,400 \$ 78,185 \$ 51,732	

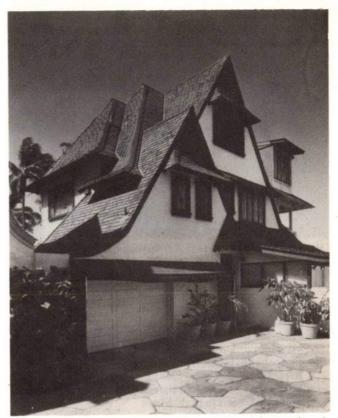
These projects met the high recreation needs identified in the State Comprehensive Outdoor Recreation Plan.

The State Comprehensive Outdoor Recreation Plan (SCORP). The updating of the 1980 SCORP was completed and it was reviewed and approved by the National Park Service, U.S. Department of the Interior. Consequently, the State of Hawaii has re-established its eligibility to receive federal grants for outdoor recreation projects through September 1989.

The SCORP includes an assessment of present and future demands for recreation activities, evaluation of these demands with the existing supply of recreational facilities, identification of deficiencies that exist in the supply of areas and facilities, and development of a statewide program to acquire and develop required areas and facilities. It includes a discussion of current conditions and issues with analysis to support the objectives, policies and implementing actions of the State Recreation Functional Plan. It addresses problems such as vandalism, competition with other land uses, competition from commercial activities, limited public and private funding, and recreation user conflicts. Finally, an action program is presented to improve public recreation opportunities statewide.

Historic Preservation

Historic Sites Survey and Registration. Seventeen historic properties were placed on the Hawaii Register of Historic Places:



The Craw Residence on Kalakaua Avenue, Honolulu was placed on the Hawaii Register of Historic Places on June 13, 1986 as a part of a larger thematic district. The house is a Tudor/French Norman cottage built in 1932 by the Liberty Investment Company.

- · Austin Jones Residence, Oahu;
- · Eymann-Judson Residence, Oahu;
- Francis Ii Brown Beach Residence, Hawaii;
- Honolulu Tudor French/Norman Cottages Thematic Group, Oahu;
- James Coke Residence, Oahu;
- Kaniakapupu, Oahu;



Kaniakapupu, Kamehameha III's summer palace ruins located in Nuuanu Valley, Oahu. This propperty was placed on the Hawaii Register of Historic Places on June 13, 1986. This propperty is the only residential remnant from the rule of Kamehameha III.

- Kapalaoa Archaeological District, Hawaii;
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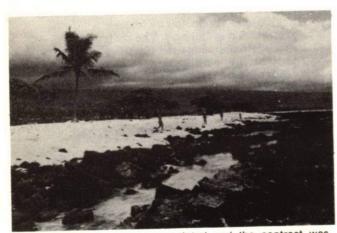
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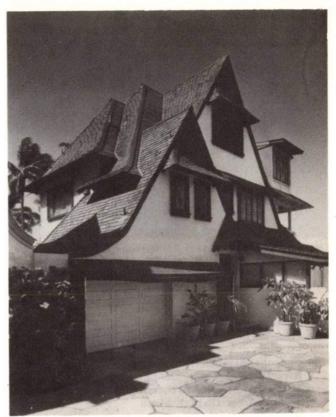
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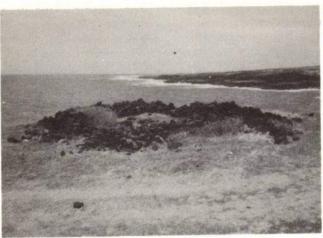
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- Kapalaoa Archaeological District, Hawaii;
- Keaau Talus Sites Archaeological District, Oahu;
- · Kukui Heiau, Hawaii;
- Mahana Archaeological District, Hawaii;



House platform at Mahana Archaeological District, Naalehu, Hawaii Island. This property was placed on the Hawaii Register of Historic Places on March 15, 1986. These stone remains were once the foundations of a grass house.

• Mendonca Residence, Oahu;

 Puaa-2 Agricultural Fields Archaeological District, Hawaii;

• Puupehe Platform, Hawaii;

• R.W. Linn Residence, Oahu;

Southwest Molokai Archaeological District, Molokai;

· Wailuku Civic District, Maui;



Maui County Courthouse was placed on the Hawaii Register of Historic Places on September 14, 1986 as a part of the Wailuku Civic District. The Courthouse was built in 1907 by prolific Hawaiian architect H.L. Kerr. The hollow tile concrete blocks made to imitate rusticated stone were hand cast on the side.

Wailuku Heiau Complex, Maui.

Six historic properties were placed on the National Register of Historic Places:

Bobcat Trail Habitation Cave, Hawaii;

• Charles Montague Cooke, Jr. Residence, Oahu;

Haiku Mill, Maui;

· Makawao Union Church, Maui;

Waianapanapa Archaeological District, Maui;

Wailuku Heiau Complex, Maui.

Five historic sites were determined eligible for eventual listing:

Ala Wai Canal, Oahu;

· Kalakaua Avenue Canal, Oahu;

- Kawela Bay Archaeological Area, Kahuku Point, Oahu;
- Luluku Discontinuous Archaeological District, Oahu;

Punahoolapa Marsh, Oahu.

Two historic properties were designated National Historic Landmarks:

- · Hickam Air Force Base, Oahu;
- · U.S.S. Bowfin, Oahu.

Preservation Reviews. A total of 988 public and private developments were reviewed for their effect on historic properties. Approximately 75% of these developments involved archaeological sites.

This portion of the annual report and the section on historic preservation grants-in-aid are intended to meet the requirements of Chapter 6E, Hawaii Revised Statutes.

Fiscal Year 1985-86

HISTORICAL AND ARCHAEOLOGICAL PLACES

Project Name	Year 7/ Established	Total Acreage	Developed Acreage	Recreation Visits 1/ (Thousands)
HAWAII				_
F-13 Kamehameha I Birthsite				
State Monument	1978	.5	.5	8
H-18 Kamoa Pt. State Historical Park	1980	12.0		$1\overline{0}$
F-14 Kealakekua Bay State Historical Park	1967	181.7	.8	36
(Kaawaloa Reserve Area)	(1971)	(111.3)	()	() 9/
(Napoopoo Area)	(1967)	(70.4)	(8.)	(36)
F-13 Lapakahi State Historical Park	1973	262.0	53.3	71
F-13 Mookini Heiau State Monument	1979	3.2	3.2	<u> 8/</u>
MAUI				. 6.
F-21 Halekii-Pihana Heiaus State Monument	1962	10.2	3.5	50
H-24 Kanekauila Heiau State Park Reserve	1984	0.7		<u>10</u> /
OAHU				
F-11 Iolani Palace State Monument	1967	11.0	11.0	72 2/
F-23 Puu o Mahuka Heiau State Monument	1962	4.0	3.5	11 =
F-15 Royal Mausoleum State Monument	1968	10.0	3.0	76
(Kapena Falls Reserve Area)	(1976)	(6.7)	()	() 9/
(Royal Mausoleum Area)	(1968)	(3.3)	(3.0)	(76)
F-24 Ulu Po Heiau State Monument	1954	8.3	1.2	5
KAUAI				
F-12 Russian Fort Elizabeth				
State Historical Park	1972	17.3	10.0	359
Total Parks	12	520.9	90.0	680
OAHU:				
H-21 DAV Keehi Lagoon Memorial	1981	11.1 5/	11.1	9/
F-18 State Capitol Grounds	1969	10.0 5/	10.0	- 9/
F-25 Washington Place	1966	$3.1\frac{5}{5}$	3.1	$\frac{10}{10}$
Total Other Areas of State Park Interests	3	24.2	24.2	
TOTAL HISTORICAL & ARCHAEOLOGICAL PLACES	. 15	545.1	114.2	680

Fiscal Year 1985-86

PARKS	RECREATION
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		Year 7/ Established	Total Acreage	Developed Acreage	Recreation Visits 1/ (Thousands)
Project	Name	Established	Acreage		
HAWAII		1052	65.4	6.0	519
F-35 Aka	aka Falls State Park	1952 1967	61.1 4/	20.0	1,270
F-75 Hap	ouna Beach State Recreation Area	1975	9.4		92
F-65 Kal	lapana State Wayside	1967	100.0 3/	16.2	69
F-53 Kal	lopa State Recreation Area Alakekua Bay State Underwater Park		315.0		$\frac{8}{8}$
F-36 Kea	lauea State Recreation Area	1966	7.3 3/	.5	88
F-66 K11	a Tree State Monument	1956	17.0	10.0	86
F-34 Lav	Exenzie State Recreation Area	1955	13.1 3/	6.0 8.0	95
F-69 Man	nuka State Wayside	1952	13.4	17.0	216
E 64 Mail	ina Kea State Recreation Area	1962	20.0 <u>3/</u>	20.4	1,094
H-47 Old	Kona Airport State Recr. Area	1976	149.6	115.0	557
F-58 Wai	iloa River State Recr. Alea	1954	(4.0)	(4.0)	(97)
	ailoa Center)	(1968)	(2.3)	(2.3)	()1
(Ha	appiness Garden)	(1978) (1954)	(143.3)	(108.7)	(460)
(Wa	ailoa)	1967	16.3 3/	3.5	701
F-33 Wai	iluku River State Park	(1967)	(6.0)	(2.0)	(138)
(Bo	piling Pots Areá)	(1967)	(10.3)	(1.5)	(563)
(Ra	ainbow Falls Area)	(22.5.)			
				- 0	806
MAUI	valley State Monument	1961	6.2	5.9	575
F-32 1ac	umahina State Wayside	1952	7.8 3/	3.5	435
F-33 Kau	uniupoko State Wayside	1965	5.7	5.7	50 1
F-73 Mak	kena State Park	1971	138.1	6.7	83
F-87 Par	palaua State Wayside	1975	6.7 10.0 3/		19
F-67 Pol	lipoli Spring State Recr. Area	1957	$\frac{10.0 3}{3}$		545
F-59 Pua	aa Kaa State Wayside	1954	8.3	7.5	507
F-81 Wah	nikuli State Wayside	1969 1966	120.0 4/		381
F-55 Wai	ianapanapa State Park	1952	1.5	.5	326
F-59 Wai	ilua Valley State Wayside	1932			
	*				
MOLOKAI		1955	233.7	10.0	188
F-60 Pal	laau State Park	1733			
DAHU	Day State Degrestion 3rea	1981	6.0	2.1	
F-83 Aie	ea Bay State Recreation Area	1970	42.7	42.7	622
F-85 Air	na Moana State Recreation Area amond Head State Monument	1962	475.0 4/	8.0	67
F-3/ D18	nauma Bay State Underwater Park	1969	101.0		179
F-30 Har	eia State Park	1977	18.4	8.0	58
F-97 HOT	nolulu Stadium State Recr. Area	1978	9.2	9.2 6.5	184 1
F-72 Kae	ena Point State Park	1978	853.0 3/	(5.0)	(184)I
(Ke	eawaula Area)	(1978)	(426.7) (51.7)	(1.5)	()
(Ma	akua Area)	(1978)	(374.6)	()	()
(Wi	indward Area)	1970	5,220.3	20.0	28
F-57 Kat	hana Valley State Park	1975	52.8	30.0	120
F-88 Kai	iaka State Recreation Area	1978	3.0 3/		
H-73 Kal	kaako Waterfront State Recr. Area	1955	384.5	22.0	302
F-48 Kea	aiwa Heiau State Recr. Area	1977	110.0	40.0	156
	laekahana State Recreation Area	(1983)	(36.3)	()	()
	ahuku Area) alanai Point Area)	(1977)	(73.7)	(40.0)	(156)
(Ka	ataliat Potlic Area/				

Fiscal Year 1985-86

PARKS RECREATION

Project	Name	AND THE	Year 7/ Establishe	Total d Acreage	Developed Acreage	Recreation Visits 1/ (Thousands)
189.1		100				
	Pali State V		1964	2.5 3/	2.5	1,156
	lakaa State W		1957	50.0 3/	12.0	201
	Falls State	AND COMPANY OF THE PARK OF THE	1977	1,374.2	10.0	25
		Recreation Area		140.0	83.0	737 15
		ecreation Area	1969	1.0	1.0	115
	a Ridge State		1967	49.9	7.0	113
		State Recr. Ar		66.0 3/	5.0	114
	alo Bay State		1970	74.8	36.0	138
H-29 Waiman	o Gulch State	Park Reserve	1980	35.9		<u> </u>
KAUAI						
	i State Recre	ation Pier	1978	0.8 3/	0.8	63
F-74 Haena S			1972	61.7	2.0	468
F-46 Kokee S			1952	4,345.0	55.0	947
	Coast State		1962	6,175.0	4.0	51
	le State Park		1967	137.5 4/	10.0	316
		Park Reserve	1968	52.3		
	River State	Park	1954	1,125.9	50.4	3,114
	Grotto Area)		(1954)	(14.6)	(5.0)	(767)
	e Area)		(1962)	(45.5)	(20.0)	(646)
	lii Area)		(1962)	(4.0)	(4.0)	(242)
(Marina			(1962)	(15.4)	(15.4)	(718)
	u Area)		(1962)	(134.8)	(6.0)	(645)
	Beach Area)		(1977)	(2.9)	()	(96)
	River Reserv		(1956)	(908.7)	()	()
	Canyon State		1952	1,866.4	10.0	978
F-82 Waimea	State Recreat	cion Pier	1974	1.3 3/	.2	40 12/
Total Parks			54	24,282.5	764.8	18,988
1 70						
OAHU						
F-92 Kahala I			1979	24.2	0.8	9/
H-62 Keehi La		1	1981	10.9 5/		$\frac{10}{}$
F-51 Lower M			1979	.8	.8	<u> </u>
F-51 Hawaii N			1981	1.0 5/	1.0	12
	invironmental	Educ. Center)				
KAUAI						- AB 63
H-80 Hanalei	Pier		1979	.5 5/	.5	<u> 10/</u>
Total Other Are	eas of State	Park Interest	5	37.4	3.1	12
127/21 - 11	2-2-2-		100			
- PARKS REC	REATION		59	24,319.9	767.9	19,000
CPAND TOTAL	L		7.	24,865.0	882.1	19,680

Fiscal Year 1985-86

SUMMARY BY ISLANDS

Island	Total No. Established	Total Acreage	Developed Acreage	Recreation Visits 1/ (Thousands
HAWAII	18	1,364.8	280.4	4,894
MAUI	10	318.2	56.3	3,771
MOLOKAI		233.7	10.0	188
OAHU	25	9,103.5	365.7	4,479
KAUAI	10	13,783.2	142.4	6,336
Total Parks	66	24,803.4	854.8	19,668
OAHU	7	61.1	26.8	12
KAUAI	•	.5	.5	
Total Other Areas of State				
Park Interest	8	61.6	27.3	12
GRAND TOTAL	74	24,865.0	882.1	19,680

POOTNOTES:

area.

1/ Visits = (number of vehicles) x (occupants) or the number of actual visits, depending on the facility. One visitor may account for more than one visit.

2/ Number of visits for Iolani Palace Tours only. Does not include grounds.

3/ Acquired jurisdiction; no definite boundaries yet established; acreage is estimated.
4/ Acquired jurisdiction of additions; new boundaries not yet established; acreage is estimated.

5/ Acquired responsibility; acreage is estimated.
6/ No current data available - rough estimate only.
7/ The year State Parks Division acquired area, jurisdiction and/or responsibility for the

8/ Area is opened to the public - no recreation visit counts available. (These are areas

that are listed in the published Guide to Hawaii State Parks.) 9/ Area is used by the public - no recreation visit counts available. (These are areas that are not listed in the published Guide to Hawaii State Parks.)

10/ Area is not open to the public.

II/ Discontinued recreation visit count at Happiness Garden (Wailoa River State Recreation Area, Hawaii) as of November, 1984. Area has been under General Lease to a non-profit group from April, 1982.

12/ Waimea Pier, destroyed Nov. 23, 1982 by Hurricane Iwa, was reconstructed and reopened

March 1985.

13/ Includes recreation visit counts for Keawaula and Makua area. No separate counts available.

14/ Pirst year of recreation visit count at Makena State Park. Began Feb. 1986.

15/ Sand Island State Recreation Area visit count dropped by 1,024,000 from prior fiscal year (FY 1984-85 1,761,000 visits; FY 1985-86 737,000 visits). Reason for most of the drop is computation errors found in the FY 1984-85 count of 1,761,000. The corrected count for FY 1984-85 is 1,028,000.

STATE PARK AND HISTORIC SITE AREAS

Fiscal Years 1952-1986

						Expenditur	es		Estimated Recreation	Operating Cost Per
Year 1/	Areas	Acreage	e 2/ Reve	nues	Total	Improvement	ts	Operating	Visits	Visit
1952	5	5,422	NA		NA	NA		NA	NA	NA
1953		5,500	NA	\$	12,458		\$	12,458	76,000	16¢
1954	9	5,739	NA		19,469			19,469	79,000	25¢
1955	14	5,829	NA		20,109	\$ 7,534		12,575	148,000	9€
1956	15	5,846	NA		28,914	15,812		13,102	154,000	9€
1957	16	6,138	NA		25,473	12,041		13,432	164,000	8¢
1958	18	6,166	NA		16,134	2,000		14,134	239,000	6¢
1959	18	6,166	NA		24,695	2,983		21,712	243,000	96
1960	18	6,166	NA		49,445	11,896		37,549	267,000	146
1961	18	6,166	\$ 9,337		542,905	462,347		80,558	297,000	27¢
1962	21	6,410	4,557		482,150	362,474		119,676	489,000	25¢
1963		6,410	11,684		387,918	213,154		174,764	666,000	26¢
1964	22	6,412	20,433		492,666	289,482		202,184	1,196,000	17¢
1965	22	7,514	21,207		860,307	664,801		195,506	1,893,000	10€
1966	27	7,514	24,428	2	,256,056	1,999,232		256,824	2,710,000	10¢
1967	34	7,536	34,650		,904,582	1,584,395		320,187	3,204,000	10€
1968	36	7,541	50,905		,365,088	1,991,749		373,339	4,767,000	8¢
1969	38	8,231	83,038		,820,857	2,341,486		479,371	6,142,000	8£
1970		15,584	113,552		,283,580	2,635,823		647,757	9,520,000	7¢
1971		15,983	151,198		,638,211	2,859,905		778,306	13,007,000	6¢
1972		16,000	190,165		,592,396	4,779,141		813,255	9,798,000	8¢
1973	46	16,108	226,541		,687,296	1,906,652		780,644	13,271,000	6¢
1974		16,629	243,039		,294,804	1,474,636		820,168	12,907,000	6¢
975	53	18,181	282,182		,066,142	14,129,563		936,579	12,124,000	8,6
976		18,577	296,656		,433,095	6,900,347	1	,532,748	14,305,000	11¢
977		20,151	326,252		,728,203	16,104,420		,623,783	18,864,000	9€
978		20,295	383,234		,039,297	7,038,675		,000,622	15,966,000	13€
979		20,625	547,895		291,090	9,031,384		,259,706	17,911,000	13€
980		20,637	544,524		224,053	16,645,273		,578,780	17,169,000	15€
981		20,836	738,143		714,919	15,617,140		,097,779	15,611,000	26¢
982		20,885	678,049		188,343	3,611,400		,576,943	18,111,000	20€
983		20,564	668,5973		545,395	4,627,714		,917,681	17,246,0004/	23¢
984		24,751	775,854		416,863	1,791,251		,625,612	19,406,000	19€
985		24,799	849,199		217,325	2,352,117		,865,208	19,908,000	19¢
986			,104,380		072,282	5,442,717		,629,565	19,680,000	24¢

FOOTNOTES

NA - Not Available

^{1/} Year ended June 30 2/ Parks for which boundaries are not yet established are not included prior to June 30, 1970.

^{3/ \$10,000} estimated loss of revenue due to Hurricane Iwa damage.

^{4/} Parks partially closed for 2 month period on Oahu and Kauai due to Hurricane Iwa damage.

STATE PARK AND HISTORIC SITE REVENUES

Fiscal Year 1985-86

entals, recreation residence lots (Kokee and Waimea Canyon State Parks)	\$312,788
entals, vacation cabins and lodgings, State operated (all parks)	146,101
ease of concessions (Kokee and Wailua River State Parks, Kauai)	165,629
coring fees (Wailua River State Park Marina, Kauai)	25,611
ale of water (Kokee)	3,990
dmission fees (Iolani Palace)	194,776
ommissions & sales, misc., all islands (firewood, timber, public phones,	
filming, photography, other) 1/	46,473
ale of publications	0
ransportation services (Wailua River State Park Marina, Kauai)	205,772
entals, other recreation areas (Kona Airport State Park)	3,240

FOOTNOTES:

1/ Income for filming in State Park areas are also being reported by the Division of Land Management in the Public Trust Land Proceeds Table.

DIVISION OF WATER AND LAND DEVELOPMENT

The Division of Water and Land Development administers the State's programs in water resources management, mineral resources assessment, flood prevention and control, water development, and irrigation services. The Division also provides engineering services to other divisions of the Department.

WATER RESOURCES MANAGEMENT PROGRAM

Activities in water resources management include the collection of climatological and hydrologic data, appraisal of surface and ground water resources, preparation of longrange plans, regulation of water development and use, protection of instream uses of water, and administration of the Soil and Water Conservation District program.

Basic Data Collections and Resource Assessments

The collection and dissemination of climate-related data—including rainfall, temperature, evaporation, wind, humidity, and solar radiation—continue to be a primary

Initiated in early 1985 and continuing throughout the current fiscal year was a project to prepare a complete rainfall atlas, consisting of monthly and annual maps in both the median and average statistical format, for all the major islands, based on the latest computerized datafile. The work entailed the review and analysis of the updated information and the subsequent construction of separate isohyetal maps of average and median rainfall, by islands, for monthly and annual periods. A total of 156 maps is being developed. The finished atlas will be published as a part of the Department's regular publication series, to be made available to interested agencies and the using public. The project is scheduled for completion in August 1986.

A study on evaporation initiated during the 1983 fiscal year has been completed. The resulting study report, printed by the Division as Report R74 and now available to the public, describes the evaporation phenomenon in the State and contains evaporation data on intermittent observations at over 200 sites during the 1894-1983 period.

The cooperative program with the U.S. Geological Survey (USGS) to collect surface and ground water data was continued. The program provides basic data on streamflow, ground water withdrawals, and water quality. It also includes appraisals of the State's water resources to assess their characteristics and availability. Streamflow data were collected regularly from 57 measuring stations; low flows were measured periodically on 6 streams; flood discharges were obtained from 67 crest-stage gages; water levels, specific conductance, and chloride concentrations of ground water were measured at about 191 wells; and field measurements of specific conductance, temperature, and pH of stream water were made at scheduled intervals. Data collected are published in the annual USGS report series, "Water Resources Data for Hawaii and Other Pacific Areas -Volume 1, Hawaii".

Water Resources Planning

The Division's water resources planning activities focused on the implementation of the Functional Plan on water resources development. In late 1985, the Division prepared and submitted to the State Plan Policy Council its

annual report on the progress being made toward the implementation of the State Water Resources Development Functional Plan. Required under the Hawaii State Planning Act, the State Water Resources Development Functional Plan is the critical link between the broad goals and policies of the Hawaii State Plan and the specific water-related programs and projects carried out by the Department and other State and county agencies.

As a result of amendments to the Hawaii State Plan adopted by the 1986 Legislature, the Division and other functional plan agencies were required to undertake a comprehensive review of their plans, taking into account current conditions and trends, new policy directions and possible new areas of emphasis. Considered a major undertaking, the review and revision of State Functional Plans will continue throughout much of FY 1986-87. The review process will include public reviews of the plans, and will culminate in the submission of the plans to the 1988 Legislature for adoption.

Regulation of Water Development and Use

Regulatory activities involved the processing of applications for development and use of ground waters in the designated Pearl Harbor, Honolulu, and Waialua Ground Water Control Areas. As applications for permits are received, they are recorded, reviewed in the field and office by technical personnel, and then forwarded to the Board of Land and Natural Resources for action.



Survey of Well Condition, Waimalu, Oahu

Evaluated during the year were other ground water basins in the State to assess their need for regulatory designation due to intensifying land development activities. A public hearing was held by the Board in April 1986 to accept comments regarding the proposed designation of the Wailuku ground water basin on the island of Maui. The proposal is presently being studied by the Board.

The monitoring of ground water supplies in areas regulated by the Board, as well as other areas in the State, is accomplished through joint program with the U.S. Geological Survey. Under this program, data on water levels, specific conductance, and chloride concentrations at 191 wells are collected.

During the 1986 session of the Legislature, the Division assisted the Department in seeking the passage of a State

water code that was designed to comprehensively regulate future development and use of surface and ground waters in the State. Senate Bill No. 564, S.D. 2, a carryover bill introduced in 1985 by the Legislature's ad hoc Advisory Study Commission on Water Resources, elicited wide interest and debate. The bill reached a House/Senate conference committee, but failed to emerge for a floor vote near the close of the session.

Protection of Instream Uses

Implementation of Hawaii's Instream Use Protection Act continued with the collection of baseline information on Windward Oahu streams, compiling data and bibliographic files, assessment of various techniques for estimating instream flow requirements of native stream fauna, and techniques for estimating streamflow on ungaged streams and stream reaches.

During the year, four applications for stream channel alterations were processed, of which three were approved and one was returned. The proposed uses included stream realignment and bank protection, installation of access road culverts, and stream clearing. These actions were proposed for Maakua, Hauula, Kahana, Waiahole, and Inoaole

A study of the U.S. Fish and Wildlife Services Instream Flow Incremental Methodology by the University of Hawaii Water Resources Research Center investigators John Ford and Robert Kinzie continued through 1986 and will soon be completed. This methodology as well as other techniques are presently under review to determine their applicability to island streams and species, and appropriateness for determining species stream flow requirements.

Division staff also continued their survey and documentation of stream diversions as a continuing follow-up to the Division's initial Instream Use Study for Windward Oahu. Diversion surveys provide essential baseline information for setting instream flow standards and in regulating future stream channel alterations to protect and enhance instream uses. Other on-site visits were also accomplished to assess potential project impact to instream resources, and to investigate complaints and unusual situations affecting Windward Oahu streams.

The 1986 Legislature considered, but did not pass, a bill to extend protection of instream uses statewide.

Administration of Soil and Water Conservation Districts

The Division continues to provide administrative services to the 15 Soil and Water Conservation Districts in the State. Each district is governed by five directors who plan and establish cooperative action programs for conservation, development, and management of soil and water resources within the district.

MINERAL RESOURCES PROGRAM

The Mineral Resources Program during the year continued to focus on the designation and regulation of geothermal resource subzones (GRS) in areas of the State having geothermal potential and on conserving the State's supply of mineral resources.

Designation of Geothermal Resource Subzones

In September 1984, the Board conducted public hearings on four proposed geothermal resource subzones located on the islands of Maui and Hawaii. After reviewing submitted testimonies, the Board designated the Kapoho and Kamaili sections of the Kilauea Lower East Rift, island of Hawaii, and the Haleakala Southwest Rift, island of Maui, as geo-

thermal resource subzones. During the public hearings, a contested case hearing on the proposed Kilauea Upper East Rift Geothermal Resource Subzone was requested and granted, which resulted in the Board's issuance of a Decision and Order in December 1984.

The Decision and Order outlined specific conditions for a proposed land exchange between the State of Hawaii and the Estate of James Campbell. The land exchange was formally executed on December 27, 1985, and involved State lands (formerly known as the Puna Forest Reserve and the Wao Kele 'O Puna Natural Area Reserve) and Campbell Estate lands at Kahaualea, Hawaii.

Also, in compliance with the Board's Decision and Order, the Division completed an environmental assessment of the Kilauea Middle East Rift, which includes the former Wao Kele 'O Puna Natural Area Reserve and adjacent lands, and the Kilauea Southwest Rift. The assessment was followed by public hearings in September 1985 to consider proposals to designate the Kilauea Middle East Rift and the Kilauea Southwest Rift as geothermal resource subzones. Contested case hearings were requested on the two proposals.

The Board conducted a contested case hearing in November 1985 and rendered a Decision and Order on December 20, 1985, designating approximately 9,014 acres of the Kilauea Middle East Rift as a geothermal resource subzone.

Regulation of Geothermal Well Drilling

The Department continues to administer State laws and rules concerning exploration and development of geothermal resources. During the year, field inspections were conducted at all well sites to ensure compliance with the Department's rules on the leasing and drilling of geothermal resources. In addition, activities at the experimental HGP-A well and power plant facility continued to be monitored throughout the year.



Free Venting of Geothermal Steam from Kapoho State 1-A Well, Hawaii

Inventory of Mineral Production

As in past years, the Division canvassed mineral producers in the State and maintained an up-to-date file on mineral production data and mining activities. Field inspections were made of various rock and cinder quarries. Requests for information, technical data, and rock samples were handled on a routine basis.

FLOOD PREVENTION AND CONTROL PROGRAM

Activities of the flood prevention and control program include managing the use of flood plains and coordinating government actions in flood prevention and control, dam safety inspections, and stream maintenance.

Flood Plain Management

The Division continued flood plain management activities under grants from the Federal Emergency Management Agency; including meeting with the Public Works Engineer of each County on the National Flood Insurance Program, community assistance visits, site visits, and preparation for flood loss reduction workshop.

Coordination of Flood Control Projects

The implementation of Federal, State, and County flood control projects in Hawaii is coordinated under this program. During the year, flood damage data were collected, stream maintenance problems were investigated, reports were prepared, and problems were referred to the owners for final disposition.

Coordination of Dam Safety Inspection

The Division continued to coordinate the State's dam safety inspection program for the 1985-86 fiscal year.

In cooperation with the Federal Emergency Management Agency, the Department of Land and Natural Resources held a dam safety conference to acquaint owners of dams of the need for a dam safety program in Hawaii.

A bill to establish a State dam safety program was introduced in the 1986 session of the Legislature to carry on the federally initiated programs and hearings were held by the

Legislature, but the bill was not enacted.

Coordination of Stream Maintenance

A bill amending the Hawaii Revised Statutes was enacted in the 1986 legislative session to clarify and unify the four counties' responsibilities in the maintenance of drainageways. In addition, the bill states that the State shall be responsible to maintain State-owned drainageways and coordinate the resolution of maintenance problems for drainageways with multiple jurisdiction or of unknown ownership. The Division has been designated to act as the lead agency for the State in maintenance activities.

WATER DEVELOPMENT PROGRAM

The drilling, casing and testing of a 14-inch well 820 feet deep in Lawai, Kauai was undertaken in this program. The new well will be used to supplement the existing Lawai Well 22 to meet the increased demand in the region and also serve as a standby source. With the additional availability of water, the County of Kauai will be able to improve planned residential and commercial development in the region.

ENGINEERING SERVICES PROGRAM

Under the Engineering Services Program, the Division of Water and Land Development implements various water and land projects such as the 1.0 million gallons per day (mgd) demonstration desalting plant, exploration for highlevel ground water, and development of agricultural parks and facilities. Projects administered under this program are guided by the goals, objectives and policies of the Hawaii State Plan.

In addition, the Division provides engineering services to other divisions within the Department. Projects handled under this aspect involve the development of water sources, park facilities and other miscellaneous structures.

Proposed Demonstration Desalting Plant

Due to increased water demands and Oahu's limited water supply all available surface and ground water supplies will be fully committed by the year 2000. Water demands beyond the year 2000 are expected to be met by alternative water sources such as desalting, recycling, blending, coastal reservoirs, and other innovative means of extending our limited water resources.

One of the alternative water sources which the State of Hawaii plans to develop is the desalting of the abundant brackish water source beneath the leeward coastal plains.

An engineering report for the proposed demonstration desalting plant was completed in August 1985. The report included the location of the plant, the source of the feedwater, the method of desalting the water, the site and floor layout of the plant, and the estimated capital and operating costs of the desalting plant.

The Department is now in the process of selecting a consultant to design and prepare construction plans and specifications for a 1.0 mgd demonstration desalting plant on the leeward coast in the Pearl Harbor Basin of Oahu. The desalting project will demonstrate the application of desalting technology in Hawaii and show that desalted water is a feasible alternative drinking water source. When the plant is completed, plan calls for conducting tours through the desalting plant to afford the public a first-hand observation of the technology of converting brackish water into potable water.

High-Level Exploratory Drilling

Recurring shortage of domestic and irrigation water in the Waimea area on Hawaii prompted the Department to conduct a study and explore for high-level ground water. The study was completed in June 1985 and recommended drilling five small diameter test holes for perched water and two deep exploratory wells for dike-confined ground water in the Kohala Mountain. Design for the test holes and one deep exploratory well were initiated in September 1985 and contract plans and specifications were completed in June 1986. Drilling of the wells will commence in fiscal year 1987. Water from these wells will be used to supplement the existing surface water source during dry periods when consumption increases and surface supply is low.

Puu Pulehu Reservoir

Although the Puu Pulehu Reservoir is an integral part of the Waimea Irrigation System, it was not operational due to leakage and seepage. Several attempts were made to seal suspected areas with gravel and gunite. However, seepage tests showed that these measures were ineffective. Plans are underway to regrade the reservoir and install a water-tight membrane. The proposed improvement will provide critically needed storage to sustain through periodic droughts in the Waimea area.

Agricultural Park

Waiahole Agricultural Park: Drilling of two exploratory wells in Waiahole Valley are complete. The wells will be the principle source of domestic and irrigation water for the Waiahole Agricultural Park. Construction of road improvements, irrigation and domestic water system, and drainage facilities for the agricultural park will commence shortly. There will be 45 agricultural lots (379 acres) and 80 residential lots (40 acres).

Park Development

Kaena Point State Park (Makua Beach): Design for a water source for the Kaena Point State Park was initiated in September 1985. Geologic investigation showed that a ground water source of approximately 100 to 150 gpm could be developed near the proposed comfort station. The contract plans and specifications for the drilling of the well were completed in June 1986. The well will provide water for the new park facilities in Makua.

Wailua River State Park (Fern Grotto): Design and preparation of contract plans and specifications for a new water system and comfort station for the Wailua River State Park were completed in June 1986. The improvements will allow more extensive use of this popular area for weddings, social parties and other tourist oriented gatherings.

IRRIGATION SERVICES PROGRAM

The Department operates the Waimanalo Irrigation System on Oahu, the Waimea Irrigation System on Hawaii, and the Molokai Irrigation System.

Waimanalo Irrigation System

The Waimanalo Irrigation System provided services to 114 farm lots and to the University of Hawaii Agricultural Research Farm. There have been no change in acreage served.

Total gallons served during the year were 76,896,866 compared to the previous year of 72,115,207 gallons. The weather conditions were generally sunny and dry throughout the year. Total rainfall of 37.93 inches was recorded for the year as compared to 48.02 inches the previous year.

Irrigation water restriction was imposed in June 1985 to September 19, 1985 until water supply improved. Prior to restriction, a conservation notice was mailed to farmers in

May 1985 of the impending water shortage.

In January of 1986 new water rates were in effect and farmers were notified of the increases for the next four

years

Universal Synergetics, Inc. (UNISUN) leased 14 acres to develop a Waste Management Project which involves three phases: (1) animal waste process; (2) algae production; and (3) greenhouse for production of tomatoes utilizing hydroponics process. Basically, the project is continuing under construction and a limited marketing of over 50,000 pounds of tomatoes. The project is operating at 25% capacity at this

On October 1, 1985 the House Committee on Agriculture, Water, Land Use, Development and Hawaiian Affairs

visited the Waimanalo Irrigation System. A briefing was presented to the members and related site inspection and tour of Waimanalo Agricultural Park highlighted the visit.

During the month of May 1986 general contractors visited the Maunawili Ditch Improvement job site in preparation for their submission of bids for the project. A total of seven contractors were accommodated for the on-site inspection. Construction is anticipated to begin during the second or third quarter of fiscal year 1986-87.

Waimea Irrigation System

The Waimea Irrigation System served farmers in the Lalamilo, Puukapu, and Hawaiian Homes sections. These sections have 479 cultivated acres for truck crop and flower production. During this fiscal year the farmers used 391,626,900 gallons of irrigation water.

The Lalamilo section consisted of 33 consumers with 278 cultivated acres and used 391,532,900 gallons of water. This section, largest of the three sections, produced most of the vegetables and flower crops. This year the total rainfall in this section was 27.68 inches as compared to last year's total of 13.13 inches.

The Puukapu section had 15 consumers with 100 cultivated acres and used 49,796,000 gallons of water to produce vegetables and root crops. The total rainfall in this section and Hawaiian Homes section was 59.47 inches.

The Hawaiian Homes section, adjacent to Puukapu, had 24 consumers with 101 cultivated acres and used 40,298,000 gallons of water to produce vegetables and flower crops.

There was ample rainfall in the Kohala Mountain watershed area. The Alakahi area (Upper Hamakua Ditch) had a total rainfall of 215.17 inches as compared to 71.32 inches last year. As a result there were only 37 days of water allocation restriction in the months of September 1985 (2 days), November 1985 (5 days), February 1986 (13 days), and March 1986 (17 days). This allocation restriction is part of our new policy that when the reservoir water shortage reaches 35 MG, 1.5 MG will be allocated per day.

The water rate increases for the next five years were approved. This was the first increase in the 24 years of exis-

tence of the Waimea Irrigation System.

Molokai Irrigation System

The Molokai Irrigation System serviced a total of 4,192 cultivated acres and show a slight increase in diversified crops acreage. Pineapple (2,600 acs.) is still the principle crop. However, there is a notable decrease in planting of new rotation crops.

This year was a repeat of a dry climatic year with a total of

30.40 inches of rainfall at the Kualapuu Reservoir.

Adoption of New Irrigation Water Rates

After public hearings on proposed water rate increase for State irrigation systems, the following water use charge was adopted on January 10, 1986.

Water Use Charge

1986 — \$0.09 per 1000 gallons 1987 — 0.10 per 1000 gallons 1988 — 0.12 per 1000 gallons 1989 — 0.14 per 1000 gallons 1990 — 0.16 per 1000 gallons

There will be no increase in the monthly acreage charge.

WAIMANALO IRRIGATION SYSTEM

	Water Sold Gallons	Acreage Served	Service Charges	Water Charges	Total Charges
1985					
July August September October November December	7,840,033 6,372,991 6,699,075 3,585,003 1,913,241 3,775,405	974.032 974.032 974.032 974.032 974.032 974.032	\$ 2,435.21 2,435.21 2,435.21 2,435.21 2,435.21 2,435.21	\$ 627.20 509.84 535.94 286.81 153.05 302.03	\$ 3,062.41 2,945.05 2,971.15 2,722.02 2,588.26 2,737.24
1986					
January	2,646,919 4,528,947	974.032	2,435.21	211.75* 407.62**	3,054.58
February March	2,757,319 5,753,975 8,564,159	974.032 974.032 974.032	2,435.21 2,435.21 2,435.21	248.14 517.89 770.78	2,683.35 2,953.10 3,205.99
April May June	11,579,154 10,880,645	974.032 974.032 974.032	2,435.21 2,435.21 2,435.21	1,042.09	3,477.30 3,414.45
TOTALS	7 6 ,896,866		\$29,222.52	\$6,592.38	\$35,814.90

MOLOKAI IRRIGATION SYSTEM

TOTAL	1,029,001,000		\$129,523.98	\$86,579.95	\$216,103.93
June	13,674,000	4192	14,312.23	12,306.60	26,618.83
May	101,939,000	4170	14,263.83	9,174.51	23,438.34
April	52,313,000	4159	14,252.83	4,708.17	18,961.00
March	51,711,000	4154	14,346.23	4,653.99	19,000.22
February	61,870,000	4107	14,294.53	5,568.30	19,862.83
January	63,903,000	3074	14.258.23	5,326.38	19,584.61
1986					
December	28,693,000	4074	7,311.40	2,295.44	9.606.84
November	57,628,000	4031	7,534.10	4,610.24	12,144.34
October	85,273,000	4031	7,534.10	6,821.84	14,355.94
September	124,128,000	4003	7,503.30	9,930.24	17,433.54
August	135,659,000	3006	7,406.60	10,852.72	18,259.32
July	129,144,000	4006	\$ 6,506.60	\$10,331.52	\$ 16,838.12
<u>1985</u>	WATER SOLD (GALLONS)	ACREAGE SERVED	SERVICE CHARGES	WATER CHARGES	TOTAL CHARGES

^{*} \$.08 per thousand gallons - July 1, 1985 to January 13, 1986
** \$.09 per thousand gallons - January 14, 1986 to June 30, 1986

WAIMEA IRRIGATION SYSTEM

Month LALAMILO SECT	(gallons)	Saruad			
		Served	Charges	Charges	Charges
1985	TION				
July	39,022,000	278 \$		\$ 2,394.12	\$ 3,019.62
August	36,090,900	278	625.50	2,246.61	2,872.11
September	39,969,000	278	625.50	2,456.05	3,081.55
October	31,820,000	278	625.50	2,017.50	2,643.00
November	21,133,000	278	625.50	1,409.12	2,034.62
December	14,744,000	278	625.50	1,018.66	1,644.16
1986	19,904,000	278	625.50	1,682.48	2,307.98
January	14,972,000	274	616.50	1,347.48	1,963.98
February		274	616.50	1,677.69	2,294.19
March	18,641,000	274	616.50	1,376.28	1,992.78
April	15,292,000			2,211.66	2,828.16
May	24,574,000	274	616.50		2,908.89
June	25,371,000	278	625.50	2,283.39	2,900.09
Subtotal	301,532,900	\$	7,470.00	\$22,121.04	\$29,591.04
PUUKAPU SECTI	ION				
1985					*
July July	5,315,000	99 \$		\$ 369.20	\$ 591.95
August	4,712,000	99	222.75	333.18	555.93
September	7,440,000	99	222.75	508.22	730.9
October	5,294,000	99	222.75	372.19	594.94
November	5,501,000	99	222.75	385.78	608.53
December	2,251,000	99	222.75	164.19	386.94
1986					
January	2,428,000	99	222.75	208.29	431.04
February	4,542,000	94	211.50	408.78	620.28
March	4,109,000	94	211.50	369.81	581.33
April	1,389,000	94	211.50	125.01	336.5
	5,398,000	100	225.00	485.82	710.83
May June	1,417,000	100	225.00	127.53	352.53
Subtotal	49,796,000		2,643.75	\$ 3,858.00	\$ 6,501.75
			.0		
HAWAIIAN HOM	ES SECTION				
	5,336,000	101	227.25	\$ 363.58	\$ 590.83
July	4,064,000	101	227.25	282.96	510.2
August	5,636,000	101	227.25	387.19	614.4
September		101	227.25	337.54	564.7
October	7,853,000			245.39	472.6
November	3,455,000	101	227.25	136.69	363.9
December	1,875,000	101	227.25	130.09	303.9
1986	2 220 220	101	227 25	278.69	505.9
January	3,280,000	101	227.25		519.9
February	3,252,000	101	227.25	292.68	
March	2,785,000	101	227.25	250.65	477.9
	1,072,000	101	227.25	96.48	323.7
April	3,276,000	99	222.75	294.84	517.5
May			777 75	177 76	350.0
April May June	1,414,000	101	222.75	127.26	330.0
May			\$ 2,718.00	\$ 3,093.95	\$ 5,811.95

DIVISION OF LAND MANAGEMENT

The public land management program involves the management of all state-owned lands defined as public lands under Section 171-2 Hawaii Revised Statutes and to assure the effective and efficient use of these lands for both public and private purposes in accordance with established policies and plans. Lands that are not encumbered for use by other government agencies come within the immediate control of the Land Management Division. These lands are made available to the public by sale, lease or month to month tenancies.

The Division also has the responsibility of acquiring private lands that are required for public purposes and being an office of record, the Division maintains a central repository of all land documents dating back to the "Great

Mahele" of 1848.

Inventory of all State lands is developed and continually updated.

Noteworthy Accomplishments

There are two noteworthy land dispositions, one at Milolii, South Kona, Hawaii, and the other at Kokee, Waimea, Kauai.



Governor George Ariyoshi and Chairperson Susumu Ono signing the 33 leases awarded to the descendants of Hoʻopuloa fishing village, Milolii, Hawaii.



Governor Ariyoshi, Mayor Carpenter and Milolii residents at the ceremonial signing of leases of homesites.

Milolii disposition numbering 33 leases for 65 years to the descendants of those individuals who lost their homes in the small fishing village of Ho'opuloa which was destroyed by lava from the eruption of Mauna Loa on April 18, 1926. This direct disposition was authorized by Act 62 which became law on May 10, 1982.

The Kokee leases, on the other hand, were issued after spirited bidding at public auction. These recreational houselots, located at Kokee and Puu Ka Pele provide recreational retreats for many island residents. One hundred fourteen

20 year leases were issued.

Land Transaction Activities Lease/Permits

A major activity of the land management program is to issue leases and permits for various purposes. There were one hundred and forty-four (144) leases, and one hundred forty-six (146) revocable permits issued. Thirty-six (36) parcels were sold in fee as remnants, abandoned rights-of-way, and some filled land.

Executive Orders

Thirty-four (34) executive orders were issued which set aside public lands for various government purposes.

Acquisition of Lands and Easements

The acquisition of private and federal surplus lands for public use is an ongoing program. The following acquisitions were made:

On Hawaii, a water tank site of .604 acres was acquired at a total cost of \$22,000, a 64.683 acre site was acquired for the Kealakekua Bay State Park for \$650,000 and a well site of .361 acres was purchased for \$1,730. Two acquisitions totalling 32.170 acres were completed for the Waimanu Estuarine Sanctuary for \$173,775.

On Maui, one acquisition for the Makawao Intermediate School was completed at a total cost of \$405,000. This was for 11.126 acres of fee land and .562 acres for rightof-way purposes.

On Oahu, one major acquisition was made at Matson Point at Kaneohe Bay for 18.021 acres for the Heeia State Park costing \$3,100,000. Two acquisitions at Waianae involved two small parcels totalling .250 acres for \$2.00.

On Kauai, one acquisition for the Waimea Landing park project contained .905 acres and cost \$187,000.

The Land Management Division processed three hundred and forty (340) depositions and acquired ten (10) parcels of land or interest in land.

Public Land Revenue

The land management program generated \$12,475,844 in revenues. Of this sum \$1,375,361 was transferred to the Office of Hawaiian Affairs and \$714,215 was transferred to the Department of Hawaiian Home Lands (DHHL). The Division also manages lands that are owned by the DHHL and all proceeds from this source are transferred to the DHHL. For fiscal year 1985-86, this sum amounted to \$133,329. The Division transferred \$8,562,280 to the State's General Fund.

PUBLIC TRUST LAND PROCEEDS

Receipts 1/	Actual 1985-86	Estimated 1986-87
Rentals, Leased Public Lands	\$4,733,656	\$5,070,000
Rentals, Unleased Public Lands	1,069,476	1,160,000
Sale of Wood, Rock and Sand	58,098	70,000
License, Use of Government Water	100,693	270,000
License, Use of Government Land for Special Purposes	202,261	200,000
License, Use of Government Land for Recreational Purp.	30,540	80,000
Sale of Real Property (Includes \$40,009 interest)	815,919	300,000
Total Receipts	\$7,010,643	\$ 7,150,000
Expenditures	Actual 1985-86	Estimated 1986-87
Revenue to Office of Hawaiian Affairs Revenue to Dept. of Hawaiian Homes* Land and Transfers	\$1,375,36L 694,575 - 0 -	\$ 1,430,000 700,000 - 0 -
Transfers to General Fund	4,940,707	5,020,000
Total Transfers	\$7,010,643	\$ 7,150,000

^{1/} All Chapter 171, HRS
Does not include \$133,329 DHHL Income (100%) from lands owned by DHHL but managed by DLNR.

GENERAL FUND REVENUES

AND FEE SCHEDULE

Title of Receipt (Legal Reference)	Pee	Schedule	Actual 1985-86	Estimate 1986-87	
Liquidated Contract Damages			-0-	-0-	
Conveyance Tax (Act 5/68)	.05	per 100	\$ 2,724	\$ 500	
Forfeiture of Failure to Return Plans an Specifications	25.00	per plan & spec	-0-	-0-	
Fees, Copies of Public Documents	.50	per page	2,176	1,000	
Fees, Issuance of Land Patents, Etc.	30.00	each	7,500	2,500	
Pees, Consent to Transfers, etc.	30.00	each	2,438	1,500	
ees, Surveying Public Lands	25.00	each	4,800	2,000	
Sees, Appraisal	Cost to De	ess than	-0-	-0-	
sale of Publications	25.00	eacn	-0-	-0-	
	llod Loacos		-0-	-0-	
ale of Improvements on Expired or Cance			7,130	7,500	
ost of Managing Property for other Depart indemnity for Damages to Insured Propert			-0-	-0-	
Sale of Wood, Rock and Sand	1		-0-	-0-	
Interest on Delinquent Accounts			3,116	3,000	
nterest Earned on TCD			37,712	130,000	
ines for Land and CDUA Violations			17,368	15,000	
itness or Juror Fees			-0-	-0-	
ales of Equipment or other Property			-0-	-0-	
efund/Reimbursement			-0-	-0-	
ransfer Balance - Sand Island Revenues			3,536,618	1,800,000	
Total			\$3,621,582	\$1,963,000	

SPECIAL LAND AND DEVELOPMENT FUND

Receipts	Actual 1985-86	Estimated 1986-87	
Rentals, Leased Public Lands	984,536	750,000	
Rentals, Unleased Public Lands	394,306	350,000	
Sale of Wood, Rock and Sand	-0-	-0-	
icense, Use of Government Water	198,217	200,000	
icense, Use of Government Land for Specific Purposes	16,708	2,500	
nterest Earned on TCD	129,349	100,000	
nterest on Deferred Payments	36,813	20,000	
Sale of Public Lands	97,055	100,000	
or representation		925	
rotal	1,856,984	1,522,500	

Expenditures	Actual 1985-86	Estimated 1986-87
		0.9
Land and Interest in Land	71,955	-0-
Structures and Permanent Improvements to Land		a / -0-
Appraisal Fees	63,975	50,000
Publication of Notices Fund	3,834	4,000
Maintenance Fund	199,371	200,000
Bond Fund Repayments	418,249	390,432
Administrative Costs	90,865	75,000
Revenue to DHHL	33,005 (11/86)	30,000
Total	881,254	749,432
Balance at the beginning:	\$1,736,818	2,712,548
Balance at end:	\$2,712,548	3,485,616

SUMMARY OF DISPOSITIONS

ALL ISLANDS

Fiscal Year 1985 - 1986

Counties Exe	cutive Orders	Sales in Fee	General Lea	ses	Revocable Permi	ts	Grand Totals
Hawaii (1st Land District)						020
Number	7	1	12		6		26
Area (Acres)	22,890	.184	1.575		109.467		134.116
Price* or Annual Rent		\$ 2,400	\$1,584		\$ 2,196		\$6,180
Maui (2nd Land District)						(2)	
Number	15	3	1		20		39
Area (Acres)	9,872.092	12.088	.044		4,864.211		14,784.435
Price* or Annual Rent		\$152,000	\$ 900		\$29,868		\$ 182,768
Only (2.2.5. 2.5)							
Oahu (3rd Land District)							
Number	10	11	6		57		84
Area (Acres)	479.615	.662	40.792		250.004		771.073
Price* or Annual Rent	-0-	\$188,850	\$ 174,902		\$ 213,783		\$ 577,535
Kauai (4th Land District)							
Number	2	1	125		63		191
Area (Acres)	3.282	.253	216.860		119.457		339.852
Price* or Annual Rent		\$ 55,000	\$ 328,642		\$ 11,340		\$ 394,982
Grant Totals							
Number	34	16	144		146		340
Area (Acres)	10,377.879	13.187	259.271		5,343.139		16,029.476
Price* or Annual Rent	-0-	\$398,250	\$ 506,028		\$ 257,187		\$ 1,161,465

SUMMARY OF GENERAL LEASES

ALL ISLANDS

Fiscal Year 1985-86

Use	Area (Acres)	Annual Rental	No. of Leases	
Intensive agriculture use	58,548.974	\$1,287,929.15	320	
Special livestock use				
Pasture use	178,618,412	730,255.50	97	
Commercial timber use				
Quarry use				
Mining use				
Recreational use	372.060	2,489.00	15	
Watershed use	7,705.048	155,305.00	9	
Res. use	168.141	319,494.00	163	
Commercial and industrial use	623, 282	2,114,768.36	152	
Hotel, apartment and motel use	6.988	58,980.00	3	
Resort use				
Unclass, uses	126,548.992	470,678.24	234	
Totals	372,591.897	\$ 5,139,899.25	993	

SUMMARY OF GENERAL LEASES

FIRST LAND DISTRICT - ISLAND OF HAWAII

Fiscal Year 1985-86

1/ Use	Area (Acres)	Annual Rental	No. of Leases
Intensive agriculture use	19,554.683	\$318,732.09	187
Special livestock use			
Pasture use	161,839.356	641,946.50	39
Commercial timber use			
Quarry use			
Mining use			
Recreational use	207.028	1.00	2
Watershed use	5,844.150	8,720.00	2
Res. use	29.587	1,586.00	16
Commercial and industrial use	254.248	885,479.86	84
Hotel, apartment and motel use	.920	9,180.00	1
Resort use			
Unclass. uses	117,790.583	47,221.40	71
Totals	305,520.555	\$ 1,912,866.85	402

^{2/} Leases awarded directly are preceeded by "D". All others are awarded by public auction.

ISLAND OF HAWAII

Fiscal Year 1985-86

1

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental	
2480	Inter-Island Resorts Liquidating Partnership	8/25/36- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:13	.720	U - Com/Ind.	\$ 4,234.00	
2481	Inter-Island Resorts Liquidating Partnership	8/25/36- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:17	.750	U - Com/Ind.	4,764.00	
2610	Inter-Island Resorts Liquidating Partnership	6/01/39 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:16	2.950	U - Com/Ind.	26,370.00	
2908	Noboru Nakagawa, Sakae Nakagawa, Susumu Nakagawa and Lawrence Takeshi Nakagawa	11/01/42- 7/31/90	Waiakea, S. Hilo	2-1-16:01	50.867	U - Unclass. Fishpond	1,400.00	
(L) 2964	Edward C. Hustace Trust Stillman Trust	3/15/41- (revocable)	Honuaula Mauka Tract No. 3, Kealakehe Mauka Tract, Kaloa-Ooma Mauka Tract, Makaula-Haleohiu Tract, N. Kona	7-3-01:02		A - Unclass. ROW	12.00	
3029	John Tolmie & David De Luz	9/13/45 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:22	1.190	U - Com/Ind.	8,112.00	
3155	Kenneth Hughes Alice H. Hughes	3/15/47- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:21	.163	U - Res.	\$ 957.00	
3156	Michael F. & Dora Lee Rudolph	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:22	.165	U - Res.	969.00	
3157	Margaret McKeen and Robert C. McKeen, Jr.	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:23	.167	U - Res.	982.00	
3158	Penniman Title Company, Inc.	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:24	.169	U - Res.	994.00	
3160	Patricia Nielson	11/18/46 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:26	.173	U - Res.	159.00	
3161	Robert Alvin Finkle	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:27	.175	U - Res.	299.00	
3162	Clarence Tatsuka & Kitome Ohama	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:28	.179	U - Res.	163.00	
3163	Harold C. & Doris Hutchins	11/18/46 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:29	.180	U - Res.	1,058.00	
3164	Electrical Workers Local 1260 Building Trust	11/18/46 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:30	.182	U - Res.	1,071.00	
3165	Ruth K. Thayer & Cleo Thayer	11/18/46- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:31	.184	U - Res.	1,083.00	
3166	John W. & Adele M. Jensen	3/15/47 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:32	.186	U - Res.	\$1,095.00	
3167	Madeleine Krusche & Benjamin Jack Krusche	9/10/47- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:33	.188	U - Res.	1,108.00	
3168	Jorge Roland Camacho	9/10/47- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:34	.190	U - Res.	1,120.00	
3169	David V. Huggett & Eileen L. McDaniel	9/10/47- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:35	.190	U - Res.	1,117.00	
3170	William C. Fehr-Trustee Martha H. Fehr-Trustee	9/10/47- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-07:36	.185	U - Res.	1,087.00	
3202	Frank Ferreira	5/01/ 47- 11/01/2017	Lehia Park Res. Lots, S. Hilo	2-1-17:65	.425	U - Res.	370.00	
3265	Hilo Bay Hotel, Inc.	6/01/49 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:33	.586	U - Hotel, Apt. & Motel	2,981.00	
3266	Hilo Bay Hotel, Inc.	8/10/49- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:34	.531	U - Hotel, Apt. & Motel	2,716.00	
3267	Hilo Bay Hotel, Inc.	6/01/49- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:35	.495	U - Hotel, Apt. & Motel	3,252.00	

ISLAND OF HAWAII

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
3268	Inter-Island Resorts Liquidating Partnership	6/01/49 - 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:32	.749	U - Hotel, Apt. & Motel	4,894.00
3269	Richard Jitchaku	6/01/49- 3/14/2015	Ocean View Lots, Waiakea, S. Hilo	2-1-05:20	.920	U - Hotel, Apt. & Motel	\$9,180.00
3354	Hamakua Sugar Co., Inc.	1/01/52- 12/31/2008	Gov't Remainders of Papaki, Koloaha Au 1st, Hamakua	4-6-05:08 & 10	41.199	A - Int. Ag. Cane	784.60
3472	Hamakua Sugar Co., Inc.	4/09/54 - 12/31/2008	Keaa-Mauka Tract, Hamakua	4-8-02-06 4-8-03-09	25.780 27.920 53.700	A - Pasture Cane	627.50
S-3583	Robert M. Yamada	11/05/59- 11/04/2004	Lots 4, 6, 7 & 8 Blk. 39, Lots 5 & 7, Blk. 40, Waiakea, Lots, S. H	2-2-37:57, 58, 59, 92 & 93	2.566	U - Com/Ind.	11,300.00
S-3584	Mauna Kea Agribusiness Co., Inc.	2/01/60- 12/31/89	Kamaee-Wailua & Puuoha, N. Hilo	3-1-04:01 & 02	330.120 19.360 199.270 548.750	A - Int. Ag. Cane ROW Waste	2,971.08 19.36 19.93 3,010.37
S-3585	Mauna Kea Agribusiness Co., Inc.	2/01/60- 12/31/89	Honomu-Hukua, Kaakepa & Kaupakuea, S. Hilo	2-8-11:01, 03, 09 & 11	767.939 26.406 21.340 91.500	A - Int. Ag. Cane ROW Pasture	6,918.20 26.41 21.34 9.
					907.185	Waste	6,975.10
S-3586	Mauna Kea Agribusiness, Co., Inc.	2/01/60- 12/31/89	Kawainui, S. Hilo	2-7-07:05	155.258 2.391 33.351 191.000	A - Int. Ag. Cane ROW Waste	\$1,397.32 2.39 3.34 1,403.05
S-3587	Hamakua Sugar Co., Inc.	2/01/60- 12/31/89	Kaunamano, Hamakua	4-4-01:01	21.000 11.100 32.100	A - Int. Ag. Cane Waste	210.00
S-3589	F. Newell Bohnett	8/15/60- 8/14/2000	Puuwaawaa, N. Kona	7-1-01:01 7-1-02:01 7-1-03:01 7-1-04:01	105,536.886	A - Pasture	30,000.00
S-3591	Vetpro Inc., dba Veterans' Produce Exchange	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, S. Hilo	2-2-49:17	.354	U - Com/Ind.	8,340.00
S-3592	Elaine K. Kono	1/16/61- 1/15/2016	Waiakea Business & Industrial Lots, S. Hilo	2-2-32:78	.778	U - Com/Ind.	17,790.00
S-3593	Automotive Supply Center, Ltd.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. Hilo	2-2-49:12	.367	U - Com/Ind.	8,640.00
S-3594	James B. Toledo, Jr. dba Broto's Body & Fender	1/16/61-1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. Hilo	2-2-50:83	.224	U - Com/Ind.	5,265.00
S-3595	Harry Hiroo Nishimura dba Harry's Refrigeration Service	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. Hilo	2-2-50:86	.258	U - Com/Ind.	\$6,075.00
S-3596	Laupahoehoe Transportation Co., Inc.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:11 Hilo	.381	U - Com/Ind.	8,980.00
S-3597	Josephine N.K. Kunewa	1/16/61- 1/15/2016	Kamehameha Ave. Bus. Lots, Waiakea S. Hilo	2-2-32:64	.339	U - Com/Ind.	8,852.00
S-3598	John T. Butler & Patricia A. Butler	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. F	2-2-50:85 Hilo	.258	U - Com/Ind.	6,075.00
S-3599	Big Island Builders, Inc.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:90 Hilo	.775	U - Com/Ind.	17,720.00
S-3600	Durant Realty Co., Ltd.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:97 Hilo	.344	U - Com/Ind.	8,100.00
S-3601	William T. White, III	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:07 Hilo	.775	U - Com/Ind.	17,720.00

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S-3602	Mar-Les Corporation	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:14 Hilo	.364	U - Com/Ind.	8,570.00
S-3603	L&P Hawaiian Enterprises, Inc.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:16 Hilo	.293	U - Com/Ind.	4,430.00
S-3604	Walter Kiyoshi Hamai dba W.K. Hamai Repair Repair Shop	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:02 Hilo	.258	U - Com/Ind.	\$6,075.00
s-3606	Hilo Kala, Inc.	1/16/61- 1/15/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:96 Hilo	.344	U - Com/Ind.	8,100.00
S-3609	Gray Line Hawaii, Ltd.	1/16/61 - 1/15/2016	Waiakea Bus. & Industrial Lots, S. Hilo	2-2-32:68	2.363	U - Com/Ind.	43,200.00
S-3611	William Mackenzie, Trustee, et al.	1/16/61- 1/15/2016	Waiakea Bus. & Industrial Lots, S. Hilo	2-2-32:21	2.334	U - Com/Ind.	42,700.00
S-3612	Hamakua Sugar Co., Inc.	2/01/61- 12/31/2008	Hoea-Kaao, Makai Tract, Hamakua	4-2-01:05, 06, & 13 4-2-07:02	747.320 35.360 119.570 175.880	A - Int. Ag. Cane ROW Pasture Waste	6,725.88 35.36 298.93 17.59 7,077.76
S-3613	Hamakua Sugar Co., Inc.	2/01/61- 12/31/2008	Humuula & Kahoahuna N. Hilo	3-9-01:01, 13 & 18 3-9-02:01, 07	818.484 25.090 332.390 1,175.964	A - Int. Ag. Cane ROW Waste	7,367.33 25.09 33.24 7,425.66
S-3614	Hamakua Sugar Co., Inc.	2/01/61- 12/31/2008	Niupea-Kealakaha	4-1-02:01, 04, 05, & 06 4-1-03:19, 26 4-1-04:01, 31, & 33	487.846 10.930 156.822 655.598	A - Int. Ag. Cane ROW Waste	4,437.68 10.93 15.68 4,464.29
S-3615	Hamakua Sugar Co., Inc.	2/01/61- 12/31/2008	Ookala-Manowaialee, N. Hilo & Hamakua	3-9-01:02, 07 3-9-02:08 4-1-01:06 4-1-05:01	1,080.740 20.852 266.031 1,367.623	A - Int. Ag. Cane ROW Waste	\$ 9,734.04 20.85 26.60 9,781.49
S-3616	Hamakua Sugar Co., Inc.	2/01/60- 12/31/2008	Kaiaakea Makai Remainder, N. Hilo	3-4-03:11, 12, 13, 14, 16, 38 & 39	64.380 15.703 80.083	A - Int. Ag. Cane Waste	579.42 1.57 580.99
S-3617	Hamakua Sugar Co., Inc.	2/01/61- 12/31/2008	Kaao-Paalaea Tract, Hamakua	4-5-01:07, 08, 13 & 16	335.100 5.800 93.843 434.743	A - Int. Ag. Cane ROW, Waste	865.00
S-3618	Laupahoehoe Transportation Co., Inc.	2/06/61- 2/05/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:09 lilo	.775	U - Com/Ind.	17,885.00
S-3619	Mauna Kea Electric Inc.	2/06/61- 2/05/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:13 iilo	.321	U - Com/Ind.	7,545.00
S-3620	Chikara & Bertha Y. Nakano	2/06/61- 2/05/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:04 ilo	.604	U - Com/Ind.	14,210.00
S-3621	Seair Corporation	2/24/61- 2/23/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-49:06	.895	U - Com/Ind.	20,670.00
S-3622	Satoru Amano dba Amano Fish Cake Factory	3/20/61- 3/19/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:95 ilo	.320	U - Com/Ind.	7,605.00
S-3624	Castle & Cooke, Inc.	3/06/61- 3/05/2016	Por. Waiakea, S. Hilo	2-1-12:26	4.499	U - Com/Ind.	\$ 27,635.00
S-3631	A & A Hawaii, Inc.	3/20/61- 3/19/2016	Kanoelehua Ind. Lots, Waiakea, S. H.	2-2-50:79 ilo	.241	U - Com/Ind.	5,735.00
S-3653	Andrews Trucking Service	3/20/61- 3/19/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:81 ilo	.256	U - Com/Ind.	6,095.00
S-3654	Kohala Sugar Co.	11/08/61- 11/07/91	Por. bottom of Pololu Valley, N. K	5-1-01:06 ohala	141.000	A - Pasture	325.00
S-3660	K. Sakai Enterprises, Inc.	3/20/61- 3/19/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:77 ilo	.275	U - Com/Ind.	6,550.00

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S-3662	Mauna Kea Agribusiness Co., Inc.	8/16/61- 8/15/91	Piihonua, S. Hilo	2-3-28:11 2-3-29:12 2-3-31:01 2-3-32:01, 04 2-5-09:05, 27	1,189.049 159.620 14.330 602.931 1,965.930	A - Int. Ag. Cane Contributory Pasture Waste	10,499.68
S-3670	Machida, Inc.	3/20/61- 3/19/2016	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:98 ilo	.344	U - Com/Ind.	8,190.00
S-3698	Bank of Hawaii	1/26/62 - 1/25/2017	Waiakea, S. Hilo	2-2-49:22	.687	U - Com/Ind.	7,880.00
S-3716	Masaru Shindo dba Hilo Soda Works	10/29/62- 10/28/2017	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:15 ilo	.556	U - Com/Ind.	851.40
S-3718	Hilo Auto Electric & Carburetor Service	6/28/63 - 6/27/2018	Kanoelehua Ind. Lots, Waiakea, S. H.	2-2-50:80 ilo	.258	U - Com/Ind.	\$ 587.00
S-3722	Hawaii Baptist Convention	11/30/62- 11/29/2017	Waiakea Cane Lots, S. Hilo	2-4-57:23	1.000	A - Unclass. Elee.	780.00
S-3723	S. K. Oda, Ltd.	11/30/62- 11/29/2017	Por. Waiakea, S. Hilo	2-2-32:86	1.934	U - Com/Ind.	18,954.00
S-3729	Hubert S. Andrews dba Andrews Trucking Service	8/23/63- 8/22/2018	Kanoelehua Ind. Lots, Waiakea, S. Hilo	2-2-50:78	.241	U - Com/Ind.	572.00
(D) S-3731	County of Hawaii, Board of Water Supply	7/01/64- 6/30/2029	Mountain View Water System, Land Site #1, Puna	1-8-08:21	.181	C - Unclass.	Gratis
(D) S-3732	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Kaumana Cave, Hilo	2-5-06:03 & 04	105.941	A - Unclass.	Gratis
(D) S-3738	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63 - 3/28/2013	Pahoa Cave, Puna	1-5-08:01 1-5-09:09 1-5-10:03	9,862.735	A - Unclass.	Gratis
(D) S-3739	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63 - 3/28/2013	Malana (Mackenzie Cave), Puna	1-3-07:06	1,257.563	C - Unclass.	Gratis
S-3742	Yasuo Kuwaye	11/12/63- 11/11/2018	Waiakea Industrial Lots, Waiakea, S. H		2.165	U - Com/Ind.	\$ 4,452.00
(D) S-3744	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63 - 4/25/2013	Puuanahulu Cave, N. Kona	7-1-03:por. 01	20,950.131	C - Unclass.	Gratis
(D) S-3745	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63 - 4/25/2013	Pigeon Cave, Puuanahulu, N. Kona	7-1-04:por. 01	48,466.080	C - Unclass.	Gratis
S-3750	Jiro Tanaka dba Tanaka Electrical	4/26/63 - 4/25/2018	Kanoelehua Ind. Lots, Waiakea, S. H	2-2-50:76 ilo	.274	U - Com/Ind.	622.00
(D) S-3751	County of Hawaii, Hilo Hospital Complex & Allied Facilities	6/07/63 - 6/06/2028	Piihonua, S. Hilo	2-3-27:02	20.401	U - Unclass.	1.00 Full Term
(D) S-3834	County of Hawaii, Board of Water Supply	4/24/64- 4/23/2029	Under & Across Por. Hamakua Water Res., Ahualoa-Kaapahu-Poh Water System, Hamak	akea	.643	C - Unclass.	1.00 Full Term
S-3836	Oda Orchids, Inc.	6/16/64- 6/15/2019	Waiakea, S. Hilo	2-2-48:01	7.855	U - Com/Ind.	\$ 565.56
S-3837	Inouye, Inc.	6/16/64- 6/15/2019	Waiakea Hmstds., S. Hilo	2-2-44:04	10.000	U - Com/Ind.	1,700.00
(D) S-3844	University of Hawaii	7/24/64- 7/23/2029	Hamakua Experiment Farm, Kaohe	4-3-10:07	185.000	A - Int. Ag.	Gratis
(D) S-3849	U.S. of America (Army)	8/17/64 - 8/16/2029	Pohakuloa Training Area	3-8-01:13	22,971.000	C - Unclass.	1.00 Full Term
(D) S-3853	U.S. Of America (Army)	8/21/64- 8/20/2029	Pohakuloa Water License Easements	4-4-16:por. 01	5.510	C - Unclass.	1.00 Full Term

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
D) S-3855	County of Hawaii	10/11/63- 10/10/2028	Kukuau 2nd & Waiakea, S. Hilo	2-2-06 2-2-11; 2-2-12; 2-2-31; & 2-2-32	1.911	U - Unclass.	Gratis
D) S-3865	County of Hawaii, Board of Water Supply	8/28/64- 8/27/2029	Utility Easements Panaewa, S. Hilo	2-2-48:por. 05	.182	U - Unclass.	1.00 Full Term
S-3875	Feed-Well, Inc.	8/12/66 - 8/11/2021	Kahema Street, Hilo	2-2-50:93	.689	U - Com/Ind.	1,800.00
o) S-3887	Hilo Electric Light Co., Ltd.	1/20/65- 1/19/95	Por. H.H.L., Humuula, N. Hilo	3-8-01:07	6.583	C - Unclass.	\$ 360.00
) S-3888	Hawaiian Telephone Co.	1/20/65- 1/19/2030	Waiakea Houselots, S. Hilo	2-2-37:63	.895	U - Com/Ind.	12,149.00
S-3908	Pacific Resort Management, Inc.	4/12/65- 4/11/2030	Ocean View Lots, Waiakea, S. Hilo	2-1-05:28	2.319	U - Com/Ind.	15,000.00
)S-3916	County of Hawaii, Board of Water Supply	10/30/64- 10/29/2029	Panaewa, Waiakea, S. Hilo	2-2-48:84	.204	U - Unclass.	Gratis
) S-3925	Hilo Electric Light Co., Ltd.	8/27/65- 8/26/2030	Kanoelehua Ind. Lots, Waiakea, S. Hilo	2-2-58:20, 21, & 22	3.718	U - Unclass. ROW	7,566.00
) S-3927	Hilo Electric Light Co., Ltd.	9/24/65 - 9/23/95	Por. Kaohe, Hamakua	4-4-16:10	.881	U - Unclass.	300.00
S-3933	Roman Catholic Bishop of Honolulu	10/18/65- 10/17/2030	Puako Beach Lots, Lalamilo, Waimea, S. Kohala	6-9-05:19	.643	U - Unclass. Elee.	334.00
S-3935	Roy S. & Martha S. Nagakura	10/18/65 - 10/17/2020	Waiakea Houselots, S. Hilo	2-2-37:66	.304	U - Com/Ind.	8,090.00
S-3948	Hamakua Sugar Co., Inc.	12/20/65- 12/31/2008	Por. Hauola, Hamakua	4-3-03:02, 03, 04, 05, 06, & 07	155.290 4.730 160.020	A - Int. Ag. Cane	\$ 2,790.00
S-3949	Hawaiian Greenhouse, Inc.	12/20/65 - 12/19/2000	Keonepoko Hmstds, Pahoa	1-5-07:17	19.401	A - Int. Ag.	3,282.00
S-3950	Kulana Foods, Ltd.	12/20/65- 12/19/2000	Waiakea Hmstds, S. Hilo	2-4-03:65 & 01	41.200	A - Pasture	180.00
S-3954	Tokio Miyashiro	11/24/65- 11/23/2020	Panaewa Farm Lots, S. Hilo	2-4-49:30	10.097	A - Int. Ag.	485.00
S-3961	Melsan, Ltd.	4/15/66- 4/14/2030	Por. Waiakea Peninsula, S. Hilo	2-1-03:05	5.000	U - Com/Ind.	32,670.00
S-3962	Eaton Magoon, Jr.	4/15/66- 4/14/96	Haukalua Hmstds, 2nd, S. Kona	8-7-05:03 & 05	14.190	A - Int. Ag.	165.00
) S-3966	Transportation Depart- ment, U.S. Coast Guard	4/15/66- 4/14/2031	Hoopuloa, S. Kona	8-9-04:21	1.427	C - Unclass.	Gratis
S-3999	Divaco Cooperative	8/16/66 - 8/15/2021	Hilo Industrial Dev., Pohaku St. Section, Waiakea, S	2-2-58:29 & 30	.918	U - Com/Ind.	2,184.00
S-4001	Jack Brysson Greenwell, Norman Leonard Greenwell,	8/16/66- 8/15/91	Onouli 2nd Gov't. Tract, S. Kona	8-1-05:01	423.000	A - Pasture	952.00
S-4002	Hamakua Sugar Co., Inc.	8/16/66- 12/31/2008	Parcel A, Pohakuhaku-Kamau Govt Rem; Parcels B,C,D,E&F,	4-3-04:04 4-3-05:01 4-3-06:01, 04, 08 10 & 12	220.892	A - Int. Ag. Cane	\$3,080.00
			Opihilala-Kapualei Gov't Remnant, Gov't Remainder				
			Kemau II Makai Trac Kaohe I; Lot 21-A Pohakea Hmstds, Mak	t			
			Section, Opihilala Paauilo, Hamakua				
S-4004	Christ Lutheran Church	8/16/66- 8/15/2031	Por. Waiakea, S. Hilo	2-4-01:120	3.101	U - Unclass. Elee.	1,214.00
S-4005	John J. & Josephine Andrade	8/16/66- 8/15/91	Ahualoa Reserve Remnants, Ahualoa Homesteads	4-5-11:06	13.496	A - Pasture	91.00

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S-4018	First United Protestant Church of Hilo	10/06/66- 10/05/2031	Piihonua, S. Hilo	2-3-27:16	3.572	U - Unclass. Elee.	4,095.00
S-4024	George Freitas Dairy, Inc.	11/29/66 - 11/18/91	Puuepa 2-Kokoiki Tract, N. Kohala	5-5-05:01	74.340	A - Pasture	1,200.00
S-4025	Palani Ranch Co., Inc.	11/29/66- 11/28/91	Honuaula, N. Kona	7-4-01:03	1,608.500	A - Pasture	2,800.00
(D) S-4029	County of Hawaii	4/13/67- 4/12/2032	Kealakehe, N. Kona	7-4-08:17 por.	30.319	C - Unclass.	Gratis
S-4097	Pauley Petroleum, Inc.	3/31/67 - 3/30/2032	Por. Waiakea, S. Hilo	2-1-09:07 & 31	.130	U - Unclass.	\$ 304.63
S-4098	Jerry M. & Elizabeth Alley	3/31/67- 3/30/2032	Por. Waiohinu Gov't. Remnants, Kau	9-5-02:40	.437	U - Unclass. ROW	24.00
S-4099	Richard Smart	3/31/67 - 3/30/2032	Across Por. Kamuela Airport	6-7-01:25 por.	.006	U - Unclass. ROW	1.00
(D) S-4102	Kilauea Council, Boy Scouts of America	4/15/66- 4/14/2021	Honokaia, Hamakua	4-6-11:40	238.000	U - Unclass. Elee.	150.00
S-4105	James H. & Mabel M. Davis	9/06/67 - 9/05/2032	Puukapu, Waimea	6-4-01:60	.005	A - Unclass. ROW	5.00
S-4107	Hamakua Sugar Co., Inc.	9/06/67 - 12/31/2008	Lauka-Kulihai, Hamakua	4-6-01:07, 08, & 18	78.460 35.810 3.710 117.980	A - Int. Ag. Cane Waste ROW	1,020.00
S-4108	Hamakua Sugar Co., Inc.	9/06/67- 12/31/2008	Hanapai, Hamakua	4-7-04:09, 11	34.700 8.850 43.550	A - Int. Ag. Cane Waste	451.10
S-4109	Hamakua Sugar Co., Inc.	9/06/67- 12/31/2008	Hamakua	4-6-02:01, 02, & 07	139.540 14.130 3.600 157.270	A - Int. Ag. Cane Waste ROW	\$ 1,861.00
(D) S-4130	Hawaiian Telephone Co.	1/01/68- 12/31/2023	N. Hilo	3-9-02:12	1.047	U - Com/Ind.	760.00
S-4138	Hale Nui Flowers, Inc.	1/12/68- 1/11/2023	Waiakea, S. Hilo	2-4-49:25	10.008	A - Int. Ag.	552.00
(D) S-4139	Honolulu Gas Co. Ltd.	4/14/67- 4/13/97	Hilo	2-2-27:02	.230	U - Com/Ind.	510.00
S-4141	Mauna Lani Resort, Inc.	2/23/68- 2/22/93	S. Kohala	6-9-01:15	775.083	A - Int. Ag.	10,000.00
(D) S-4191	University of Hawaii	1/01/68- 12/31/2033	Kaohe, Hamakua	4-4-15:09	13,321.054	C - Unclass.	Gratis
(D) S-4196	University of Hawaii	4/26/68- 4/25/2033	S. Kohala	6-4-03:16, 97	196.414	A - Int. Ag.	1.00 Full Term
S-4201	Thrift Guaranty Corporation of Hawaii	9/26/68 - 9/25/2023	Waiakea, S. Hilo	2-2-58:33	.474	U - Com/Ind.	1,600.00
S-4202	Julio Resureccion	9/26/68- 9/25/93	Keopu No. 2, N. Kona	7-5-01:22	17.490	A - Pasture	429.00
S-4203	Richard Smart	1/01/68- 12/31/2033	S. Kohala	6-3-01:por. 02, 04, 06	.150	C - Watershed License	\$ 720.00
S-4205	Flowers, Inc.	9/26/68- 9/25/2023	Waiakea, S. Hilo	2-4-49:31	60.000	A - Int. Ag.	3,312.00
S-4206	Sun Sun Lau, Ltd.	9/26/68 - 9/25/2033	Waiakea, S. Hilo	2-2-20:16 por.	.059	U - Unclass. ROW	80.00
S-4207	Hugo & Shirley Von Platen Luder	9/26/68- 9/28/2021	N. Kona	7-5-09:64	.013	U - Unclass. ROW	16.36
S-4224	Richard Smart	2/07/69- 2/06/94	N. Kohala	5-8-02:06	23.800	A - Pasture	96.00
S-4225	Mitsuo & Yaeko	2/07/69-	Waiakea, S. Hilo	2-4-49:11	10.021	A - Int. Ag.	576.00

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Lease Term of Tax Map Area Classification Annual No. Lessee Lease Location Key (Acres) and Use Rental 2/07/69-S-4226 Joseph Chang, Sr. Kokoiki, N. Kohala 5-5-04:51 & 52 4.934 A - Int. Aq. 45.00 2/06/89 Kohala 2/07/69-S-4227 Kona Joint Venture I, Kahaluu, N. Kona 7-8-13:42 .128 U - Unclass. 128.25 2/06/2034 Ltd. ROW (D) S-4235 University of Hawaii 4/11/69-Humuula, N. Hilo 3-8-01:14 C - Unclass. .057 Gratis 4/10/2034 ROW S-4238 Yeishun & Akiko 6/12/69-Piha, N. Hilo 3-2-02:29 2.190 685.00 A - Int. Ag. Gusukuma 6/11/89 S-4239 Palani Ranch Co., Inc. 4/15/69-Kealakehe, N. Kona 7-4-02:07 1,232.000 \$ 2,600.00 A - Pasture 4/14/94 5-4246 Sim Wenner 8/09/69-Moeauoa I Gov't. 7-5-01:19 6.890 A - Pasture 55.00 8/08/94 Remainder, N. Kona S-4247 Ponoholo Ranch, Ltd. 7/11/69-5-9-01:por. 04 5,864.514 Pahinahina-Kiio-A - Pasture 3,930.00 7/10/94 kalani Tract, 5-9-03:por. 01 Section 1. € 02 5-9-04:08 & por. 01, N. Kohala S-4248 Gill T. Causey 7/11/69-Kokoiki, N. Kohala 5-5-05:19 .652 A - Unclass. 65.00 7/10/99 ROW S-4249 Bank of Hawaii 7/11/69-Honuaula, N. Kona 7-5-07:por. 68 .047 U - Unclass. 11.11 7/10/2034 ROW S-4251 Woodrow Miller 9/12/69-Puuanahulu 7-1-05:05 8.199 A - Int. Ag. 1,030.00 Homestds., N. Kona 9/11/94 S-4252 Hilo Bay Hotel, Inc. 8/14/69-Banyan Dr., Waiakea 2-1-05:45 .213 U - Com/Ind. 590.00 8/14/2015 Peninsula, S. Hilo S-4253 Inter-Island Resorts 8/14/69-Banyan Dr., Waiakea 2-1-05:46 1.054 U - Com/Ind. 3,300.00 Liquidating 3/14/2015 Peninsula, S. Hilo Partnership S-4260 Kau Agribusiness 9/29/69-Hionaa & Kaalaiki, 9-7-01:20 1,791.489 A - Int. Ag. \$ 7,150.00 9/28/2004 Co., Inc. Kan Cane S-4261 Kau Agribusiness 9/29/69-Kapapala & Kaalaala, Kau 9-7-01:22 539,562 A - Int. Ag. 2,150.00 Co., Inc. 9/28/2004 Cane Waiohinu, Kau S-4262 Kau Agribusiness 9/29/69-9-5-05:03 378.870 A - Int. Ag. 4,972.00 Co., Inc. 9/28/1994 Cane S-4263 Kau Agribusiness 9/29/69-Kapapala, Kau 9-8-01:06 291.130 A - Int. Ag. 4,743.00 Co., Inc. 9/28/94 Cane S-4264 9/29/69-Haruyuki & Hatsue Camp Site 8-A 2-4-07:27 .096 U - Unclass. 2.67 9/28/2024 Tao Waiakea, S. Hilo ROW S-4279 1/20/70-Anthuriums of Pahoa, Por. Nanawale 1-4-34:26 3.008 A - Int. Aq. 680.00 Inc. 1/19/95 Res., Kaniahiku, Puna S-4280 Kinji & Tsuneyo 1/20/70-Por. Nanawale 1-4-34:27 2.172 A - Int. Ag. 465.00 Res., Kaniahiku, Puna Uyeda 1/19/95 S-4281 Puukole-Paco Richard Smart 1/20/70-5-7-01:04 2,464.290 A - Pasture 4,500.00 1/19/95 Tract, N. Kohala S-4282 Kau Agribusiness 1/20/70-Hionaa-Kaalaiki 1,669,000 A - Int. Ag. 9-5-15:03 27,104,00 1/19/95 Tract, Kau 80.000 Co., Inc. Cane 448.290 Contributory 2,197,290 Waste S-4283 1/20/70-.439 Kapalama Commercial Hilo Ind. Dev., U - Com/Ind. 2-2-58:25 \$ 1,600.00 1/19/2010 Pohaku St., Section 1, Waiakea, Center S. Hilo S-4284 Kapalama Commercial 1/20/70-Hilo Ind. Dev., .826 2-2-37:81 U - Com/Ind. 4,860.00 Center 1/19/2025 Leilani St., Waiakea, S. Hilo S-4285 1/20/70-4-6-03:01, 02 Hamakua Sugar Parcel A & B. 477.100 A - Int. Ag. 9,050,00 12/31/2008 23.430 165.919 Co., Inc. Honokaia Makai Cane ROW 20 Tract, Hamakua 4-6-04:01, 03 Waste 666, 449 S-4287 Antone & Helen 1/20/70-4-3-06:16 .330 A - Unclass. 1.09 Easement-Texeira 1/19/2025 Pohakuhaku & ROW Kemau, Hamakua

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			ISLAND OF I	THE SELECT				
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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental	
(D) S-4288	Honolulu Gas Co.,	5/07/69 - 5/06/2024	Kealakehe, N. Kona	7-4-08:22	.354	C - Unclass.	430.00	
S-4299	Ah Chun Lee	5/12/70- 5/11/95	Kaimu-Kiula Hmstd., Makena & Kaimu, Puna	1-2-06:05	375.460	A - Pasture	350.00	
S-4300	Pohaku Enterprises, Inc.	5/12/70 - 5/11/2025	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:35	1.435	U - Com/Ind.	8,000.00	
S-4302	Yamada Transfer, Inc.	5/12/70 - 5/11/2025	Waiakea Houselots, & Gov't. Remnant, S. Hilo	2-2-37:89	4.823	U - Com/Ind.	\$16,985.00	
S-4303	David DeLuz	6/11/70- 6/10/2010	Waiakea Houselots, Ext., Waiakea, S. Hilo	2-2-58:15	.608	U - Com/Ind.	6,100.00	
S-4306	Big Island Tobacco Corp.	6/30/70- 6/29/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:04	.331	U - Com/Ind.	1,125.00	
S-4307	Geo 'Co., Inc.	6/23/70- 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:03	.278	U - Com/Ind.	980.00	
S-4308	Hilo Sheet Metal, Inc.	6/23/70- 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:02	.551	U - Com/Ind.	1,350.00	
S-4309	The Investment Corporation	6/23/70- 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:32	.459	U - Com/Ind.	1,620.00	
S-4310	Alumside Products, Inc.	6/30/70- 6/29/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:31	.459	U - Com/Ind.	1,620.00	
S-4311	Industrial Steel Corporation	6/23/70 - 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:27 & 28	.878	U - Com/Ind.	\$ 3,100.00	
S-4312	R. Hirae Painting, Inc.	6/30/70 - 6/29/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:26	.439	U - Com/Ind.	1,550.00	
S-4313	Scott T., Bernice N. & Thomas T. Nakahara	6/23/70- 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:24	.255	U - Com/Ind.	920.00	
S-4314	Scott T., Bernice, N. & Thomas T. Nakahara	6/23/70 - 6/22/2010	Hilo Ind. Dev., Pohaku St., Waiakea S. Hilo	2-2-58:23	.273	U - Com/Ind.	930.00	
S-4316	Mike Dietz Golf Shop, Inc. A/S Bayshore Realty Investment, Inc.	6/23/70 - 6/22/2025	Waiakea Golf Course, S. Hilo	2-1-01:12	63.248	U - Com/Ind.	5,500.00	
S-4317	Hisato & Tsuyako Ogata	6/30/70 - 6/29/2025	Easement-Waiakea	2-4-33:18 por.	.045	U - Unclass. ROW	10.00	
S-4319	Kinoole	2/01/71- 1/31/2046	Por. Gov't. Land at Waiakea	2-4-25:01	1.025	U - Unclass. Elee.	1.00	
(D) S-4320	Hawaiian Telephone Co.	1/01/70- 12/31/2035	Halai Hill, Hilo	2-3-22:por. 37	.321	U - Unclass. ROW	73.00	
S-4323	C. Brewer & Co., Ltd.	11/10/70- 11/09/2035	Waiakea, S. Hilo	2-1-10:33	3.706	U - Com/Ind.	\$ 15,500.00	
S-4330	Fortunato Garcia Teho et. al. A/S William Christian Fisher, II	4/16/71- 4/15/2026	Hilo Ind. Dev., Leilani St., Waiak S. Hilo	2-2-37:122 ea,	.416	U - Com/Ind.	2,808.00	
S-4331	Pacific Consolidated Investments	4/16/71- 4/15/2026	Hilo Ind. Dev., Leilani St., Waiaka S. Hilo	2-2-37:144 ea	.516	U - Com/Ind.	1,950.00	
S-4332	Pacific Consolidated Investments	4/16/71- 4/15/2026	Hilo Ind. Dev., Leilani St., Waiak S. Hilo	2-2-37:145 ea,	.546	U - Com/Ind.	1,950.00	

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4333	Hawaiian Fruit Flavors, Inc.	7/15/71- 7/14/2011	Waiakea Houselots, S. Hilo	2-2-37:56	.448	U - Com/Ind.	3,175.00
S-4334	Big Island Agricultural Producers, Inc.	4/16/71- 4/15/96	Panaewa Farm Lots, S. Hilo	2-4-49:24	10.231	A - Int. Ag.	900.00
S-4336	Solamon Thampson	4/16/71- 4/15/91	Haukalua Hmstds.	8-7-04:05, 07, 08, 09 & 10	28.150	A - Pasture	475.00
S-4344	Hilo Medical Group, Inc.	12/27/71- 12/26/2026	Por. of Gov't. Land at Piihonua	2-3-27:25	2.052	U - Com/Ind.	4,088.90
s-4351	University of Hawaii	3/10/72- 3/09/2037	Student Housing Site, Waiakea, S. Hilo	2-4-01:162	6.566	U - Res.	Gratis
) S-4357	Daughters of Hawaii	8/25/72- 8/24/2037	Old Palace Lot, Kailua, N. Kona	7-5-07:20	1.284	U - Unclass. Elee.	\$ 100.00
S-4359	William T. White, III	8/17/72- 8/16/2027 S. Hilo	Hilo Ind. Dev., Leilani St., Waiake	2-2-37:88 ea	.413	U - Com/Ind.	4,000.00
S-4364	TSI, Ltd.	8/17/72- 8/16/2027	Panaewa Farm Lots, Waiakea, S. Hilo	2-4-49:17	12.683	A - Int. Ag.	5,000.00
S-4366	Matsumoto Nursery, Inc.	8/17/72- 8/16/2027	Panaewa Farm Lots, Waiakea, S. Hilo	2-4-49:06	10.008	A - Int. Ag.	2,900.00
S-4370	The Orizaba Co.	11/17/72- 11/16/2037	Por. Gov't Land of Waiakea, S. Hilo	2-4-08:01	5.938	A - Unclass. ROW	51.00
S-4379	David DeLuz	6/14/73- 6/13/2010	Waiakea Houselots ext., Waiakea, S. H		.895	U - Com/Ind.	7,000.00
S-4415	B.K. Exotics, Inc.	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:01	10.193	A - Int. Ag.	285.00
S-4416	Joseph S. Dalrymple	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:02	10.000	A - Int. Ag.	480.00
S-4417	Jason A. Hashimoto	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:03	10.000	A - Int. Ag.	\$ 280.00
S-4418	Roy O. Sato	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:04	10.000	A - Int. Ag.	280.00
S-4420	Ronald K. Iwata	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:06	10.000	A - Int. Ag.	480.00
S-4422	Ion W. Smith & Teruo T. Smith	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:08	10.000	A - Int. Ag.	280.00
S-4423	David R. Shiigi	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:09	10.000	A - Int. Ag.	280.00
S-4424	Moses K. Makuakane	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:10	10.000	A - Int. Ag.	280.00
S-4425	Cadwallader, Inc.	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:11	30.000	A - Int. Ag.	840.00
S-4426	Kazumasa Ikeda	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:12	29.166	A - Int. Ag.	817.00
S-4428	Oren J. Tsunezumi	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:14	20.000	A - Int. Ag.	\$ 760.00
S-4429	Yukio Murayama	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:15	19,596	A - Int. Ag.	549.00
S-4430	Shigenari Shimabukuro	2/01/75 - 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:16	15.325	A - Int. Ag.	429.00
S-4432	Vermon B. Inouye	2/01/75- 1/31/2030	Keonepoko Iki Farm Lot Subdv., Puna	1-5-116:19	16.839	A - Int. Ag.	471.00
S-4438	Gasco, Inc.	11/01/73 - 10/31/2038	Piihonua, S. Hilo	2-3-15:01 por.	.033	U - Unclass. ROW	2.46
S-4443	Hawaii Planing Mill, Ltd.	9/04/75 - 9/03/2030	Lot 1-B, Hilo Ind. Dev. Pohaku St. Section, Waiakea, S		2.049	U - Com/Ind.	12,000.00

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Classification Annual Area Tax Map Lease Term of and Use (Acres) Rental Location Kev No. Tessee Tease 2-4-49:26, 27 30.340 A - Int. Ag. 4,100.00 9/04/75-Lots 12, 13, 14, S-4445 Green Point Murseries, Panaewa Farm Lots, & 28 9/03/2010 Inc. 2nd Ser., Waiakea, S. Hilo 1,200,00 H. Bunice Nursery, 9/04/75-Lot 18, Panaewa 2-4-49:02 10.021 A - Int. Ag. S-4446 9/03/2010 Farm Lots, 2nd Ser., Inc. Waiakea, S. Hilo \$ 3,100.00 10.008 A - Int. Ag. 9/04/75-2-4-49:07 S-4447 Larry T. & Yoshiko Lot 23, Panaewa Farm Lots, 2nd Ser., Waiakea, S. Hilo 9/03/2010 9/04/75-Lot 22, Volcano 1-9-01:18 29.880 A - Int. Ag. 2,800.00 S-4448 Polynesian Orchids, Farm Lots, Olaa, 9/03/2010 Inc. Puna 1,100,00 10.021 A - Int. Ag. S-4450 Anthony J. & Ellen C. 9/04/75-Lot 19, Panaewa 2-4-49:03 9/03/2030 Farm Lots, 2nd Ser., Res. Vincent Waiakea 820.00 A - Int. Ag. S-4453 Willa McCoy 9/04/75-Lot 24, Panaewa 2-4-49:08 10,021 9/03/2030 Farm Lots, 2nd Ser. Res Wajakea 10.021 A - Int. Ag. 1,700.00 S-4455 9/04/75-Lot 26, Panaewa 2-4-49:10 Palms, Inc. 9/03/2030 Farm Lots, 2nd Ser. Res. Wajakea A - Int. Aq. 1,050,00 9/04/75-Lot 28, Panaewa 2-4-49:12 6.784 S-4456 Jules J. Gervais, Jr. 9/03/2030 Farm Lots, 2nd Ser., & Soontaree Gervais Waiakea 1,000,00 9/04/75-Lot 21, Panaewa 2-2-56:18 2.615 A - Int. Ag. Lawrence Balberde. S-4459 9/03/2030 House Lots, 2nd Ser., Res. Jr. Waiakea A - Pasture \$ 1,850.00 9/04/75-Por. Lot 1-B, 7-5-10:16 36.310 S-4461 Joseph Gomes Hienaloli St., 9/03/1995 N. Kona A - Pasture 5,100.00 3/01/76-Land of Keoniki & 6-5-01:10 230,127 S-4463 Richard Smart 2/28/2011 Kauniho, Waimea 4,500.00 3/01/76-Land of Haleaha, 6-5-01:06 135.000 A - Pasture S-4464 Richard Smart 2/28/2011 Waimea 13,950,00 3/01/76-Land of Keanuio-6-5-01:20 420,000 A - Pasture Richard Smart S-4465 2/28/2011 mano & Puniki, waimea 25,306.00 3/01/76-Land of Honokaia, 4-6-11:04 & 05 742,496 A - Pasture William V. Brilhante, S-4466 Inc. dba Hawaii Cattle 2/28/2011 Hamakua Co., Ltd. 3/01/76-Land of Honokaia, 4-6-11:03 739.311 A - Pasture 22,400.00 S-4467 Richard Smart 2/28/2011 Hamakua 3/01/76-Land of Honokaia, 4-6-11:11 738.233 A - Pasture 22,400.00 S-4468 Richard Smart 2/28/2011 Hamakua 20,200.00 3/01/76-Land of Honokaia, 4-6-11:12 522,000 A - Pasture S-4469 Richard Smart 2/28/2011 Hamakua 3/01/76-Land of Honokaia, 500,000 A - Pasture 22,100.00 S-4470 Richard Smart 4-6-11:13 2/28/2011 Hamakua 3/01/76-Land of Kaohe-3. 4-4-15:02 1,738.932 A - Pasture \$17,500.00 S-4471 Alfred J. Nobriga 2/28/2011 Hamakua 1,902.000 A - Pasture 20,500.00 3/01/76-Land of Hoea-Kaao, 4-2-08:02 Jack Ramos Ranch, Inc. S-4472 2/28/2011 Hamakua 26,100.00 3,110,000 Carl Meyer Ranch, Inc. 3/01/76-Land of Kaohe-6, 4-1-06:07 A - Pasture S-4473 2/28/2011 Hamakua 22,300.00 6-2-01:03 2,977.640.000 A - Pasture S-4474 Richard Smart 3/01/76-Land of Pun 2/28/2011 Kawaiwai. & 05 Panoluukia & Kapia, S. Kohala 3/01/76-Land of Kalopa & 4-4-14:02 & 03 7,282.000 A - Pasture 77,600,00 S-4475 K. K. Ranch, Inc. 2/28/2011 Kaohe-3, Hamakua 65,100.00 5,995,000 A - Pasture 3/01/76-Land of Piihonua, 2-6-18:01 S-4476 Richard Smart 2/28/2011 S. Hilo

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4477	S. C. Ranch Co., Inc.	3/01/76- 2/28/2011	Land of Kaohe-2, Hamakua	4-3-10:08	7,780.000	A - Pasture	90,000.00
S-4478	Boteilho Hawaii Enterprises, Inc.	3/01/76 - 2/28/2011	Land of Kaohe-2, Hamakua	4-3-10:02	7,932.360	A - Pasture	112,000.00
S-4483	Leslie W. Wishard	1/01/76- 12/31/2005	Lalamilo, S. Kohala	6-6-01:01 & 02	.082	A - Unclass. ROW	11.83
S-4484	Donn W. Carlsmith	11/01/75 - 4/30/2013	Waiakea & , Piihonua, S. Hilo	2-4-08:04 2-6-18:01	18.852	C - Unclass. ROW	10.00
S-4514	South Pacific Christian Camps, Inc.	1/01/76 - 12/31/2031	Makapala, N. Kohal	a 5-2-08:03	4.102	U - Unclass. Elee.	\$ 1.00
S-4541	Kansako Farms, Inc.	8/26/76 - 8/25/2001	Hakalau-Iki, S. Hilo	2-9-02:47	6.793	A - Int. Ag, Cane	370.00
S-4542	Richard A.G. Pintane	8/26/76- 8/25/96	Laupahoehoe, N. Hilo	3-6-01:08	11.790	A - Pasture	100.00
S-4545	Honua Hawaii Foundation, Inc.	12/24/76- 12/23/2041	Waiakea Forest Reserve, Panaewa Reserve, S. Hilo	2-4-04:por. 01 2-4-08:por. 01	202.128	A - Rec.	1.00
S-4548	Alex Jr. & Candice A. Penovaroff	2/10/77 - 2/09/2032	Lalamilo Farm Lots, Waimea, S. Kohala	6-6-05:21	16.958	A - Int. Ag. Res.	3,100.00
S-4549	Blackburn Lee Snow	2/10/77- 2/09/2032	Lalamilo Farm Lots Waimea, S. Kohala	, 6-6-05:26	35.818	A - Int. Ag. Res.	3,350.00
(D) S-4552	County of Hawaii	11/01/75- 10/31/2040	Waiakea, S. Hilo	2-4-02:por. 1	1.080	U - Unclass. ROW	1.00
(D) S-4553	Fujiyama Development Corp.	10/07/76- 10/06/2041	Waiakea, S. Hilo	2-2-31	.592	U - Unclass. ROW	650.00
S-4556	Island Tropicals	4/22/71- 4/21/2012	Kaumana, S. Hilo	2-5-03:21	26.072	A - Com/Ind.	3,200.00
(D) S-4563	University of Hawaii	9/24/76 - 9/23/2041	Waiakea, S. Hilo	2-4-01:7 & 41	20.000	A - Unclass.	Gratis
(D) S-4565	County of Hawaii	12/08/77- 12/07/87	Keahuolu & Lanihau Nui, N. Kona	7-5-05:83	14.082	U - Unclass.	Gratis
S-4566	YWAM-International Christian Schools	7/19/76 - 7/18/2001	Holualoa, N. Kona	7-4-06:01por	1.501	A - Unclass.	100.00
(D) S-4569	University of Hawaii	6/15/78 - 6/14/2043	Waiakea, S. Hilo	2-4-01:163	13.434	U - Res.	Gratis
(D) S-4577	Mauna Ziona Congre- gational Church	6/15/78 - 6/14/2013	Kalaoa, N. Kona	7-3-04:051	1.440	A - Unclass.	100.00
(D) S-4594	University of Hawaii	7/18/79 - 7/17/2044	Waiakea, S. Hilo	2-4-01:por. 07	36.088	U - Unclass.	Gratis
S-4595	Thomas M. Okuna	1/27/79 - 1/26/2004	Waiohinu, Kau	9-5-03:19 9-5-05:02	272.790	A - Pasture	2,100.00
S-4600	Dillingham Investment Corporation	12/29/78- 12/28/2043	Honomalino & Hoopuloa, S. Kona	8-9-01:02	26.040	A - Unclass. ROW	6,800.00 Full Term
(D) S-4601	Hilo Association to Help Retarded Citizens	12/15/78- 12/14/2053	Waiakea, S. Hilo	2-4-56:02 & 20	2.607	U - Unclass. Elee.	1.00
(D) S-4602	Research Corporation of the University of Hawaii	6/19/79 - 6/18/1989	Kapoho, Puna		4.100	A - Unclass.	Full Term
(D) S-4604	Hilo Association to Help Retarded Citizens	7/01/79— 6/30/2054	Lots 128, 129, 130 Kaumana Houselots, S. Hilo	2-5-04:02	.853	U - Res.	\$ 1.00
S-4608	Brantley Center, Inc.	6/1/77- 5/31/2042		4-5-01:11 4-5-01:18	1.248	A - Int. Ag.	1.00
(D) S-4609	University of Hawaii	1/1/80- 12/31/2035	Waimea, S. Kohala	6-6-03:7	10.561	A - Unclass.	Gratis
(D) S-4610	Big Island Housing Foundation	7/1/78- 6/30/2053	Waiakea, S. Hilo	2-4-56:por. 19	7.159	U - Res.	1.00 per annum

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ISLAND OF HAWAII

12 Fiscal Year 1985-86 Classification Annual Area Tax Map Term of Lease and Use Rental (Acres) Lessee Lease Location Kev No. 263.00 .200 C - Unclass. 3-8-01:01 1/1/77-Humunula, N. Hilo S-4614 Hawaiian Telephone Co. 1/30/2042 400.00 1-5-116:7 10,000 A - Int. Ag. 5/1/80-Keonepoko Iki Masaji & Jane N. S-4620 4/30/2035 Kawazoe 1,000.00 25,000 A - Int. Ag. 5/1/80-Keonepoko Iki, 1-5-116:13 Pahoehoe Tree Farm, S-4621 4/30/2035 Puna Inc. 600.00 15.000 A - Int. Ag. 5/1/80-Keonepoko Iki, 1-5-116:17 S-4622 Bigrock Anthuriums, Inc. 4/30/2035 Puna 400.00 5/1/80-Keonepoko Iki, 1-5-116:20 10.000 A - Int. Ag. Wilfred & Merle Okabe S-4623 4/30/2035 Puna 400.00 1-5-116:21 10.000 A - Int. Ag. 5/1/80-Keonepoko Iki. S-4624 Yoshiaki & Marion 4/30/2035 Puna Noguchi \$ 400.00 10.000 5/1/80-Keonepoko Iki, 1-5-116:22 A - Int. Aq. Calvin K. & Cary Lynne 5-4625 4/30/2035 Puna Hayashi 10.000 400.00 1-5-116:23 A - Int. Aq. 5/1/80 Keonepoko Iki, S-4626 Raymond H. & Jean 4/30/2035 Puna Iwata 5/1/80-1-5-116:24 10.000 A - Int. Ag. 400.00 George & Thelma Keonepoko Iki, S-4627 4/30/2035 Kawaguchi Puna 30.000 A - Int. Ag. 1,200.00 5/1/80-Keonepoko Iki, 1-5-116:27 S-4628 Cadwallader, Inc. 4/30/2035 Puna 851.00 Keonepoko Iki, 1-5-116:26 21.276 A - Int. Aq. Mordecai H. Jr. & 5/1/80-S-4629 4/30/2035 Puna Michiko Hudson 660.00 16.501 A - Int. Aq. 1-5-116:25 5/1/80-Keonepoko Iki, Ryoichi & Reiko S-4630 4/30/2035 Puna Okamoto 5/1/80-9.079 A - Int. Ag. 3,700,00 Panaewa Farm Lots, 2-4-49:32 Kualoa Farms, Ltd. S-4632 Wajakea, S. Hilo 4/30/2015 Panaewa Farm Lots, 2-4-49:por. 19 23.277 A - Int. Aq. 9.500.00 5/1/80-S-4633 Jules J. Jr. & Waiakea, S. Hilo 4/30/2015 Soontaree Gervais 10.243 A - Int. Aq. 6,000.00 5/1/80-Panaewa Farm Lots, 2-4-49:20 Jules J. Jr. & S-4634 4/30/2015 Waiakea, S. Hilo Soontaree Gervais 10.243 A - Int. Ag. 6,500.00 Panaewa Farm Lots. 2-4-49:21 Melchor V. & 5/1/80-S-4635 Avelina V. Ventura 4/30/2015 Waiakea, S. Hilo 10.243 A - Int. Ag. \$ 4,000.00 5/1/80-Panaewa Farm Lots, 2-4-49:22 S-4636 Karl Hori Waiakea, S. Hilo 4/30/2015 5/1/80-3,400,00 Panaewa Farm Lots, 2-4-49:04 10,021 A - Int. Ag. S-4637 Panaewa Tropicals, Inc. 4/30/2015 Waiakea, S. Hilo 10.021 6,500.00 A - Int. Ag. Big Island Plant & 5/1/80-Panaewa Farm Lots, 2-4-49:09 S-4638 Foliage, Inc. 4/30/2015 Waiakea, S. Hilo 3,500.00 4-4-11:33 5.400 A - Int. Ag. 5/1/80-Kaapahu, Hamakua Thomas Kasecky S-4639 4/30/2005 3,600,00 10.243 A - Int. Ag. 5/1/80-Panaewa Farm Lots. 2-4-49:23 Michael G. Mentnech S-4640 4/30/2035 Waiakea, S. Hilo & Charlene F. Lagrimas A - Int. Ag. 2,500.00 49.082 5/8/80-Olaa, Puna 1-8-06:103 Austin F. & Betty F. 5-4642 5/7/2035 Keeney 1.420 U - Com/Ind. 29,200.00 2-1-12:25 Waiakea, S. Hilo 8/28/80-S-4662 INI Agrico 8/27/2035 2-2-37:94 & 95 27,000,00 8/28/80-Waiakea, S. Hilo .916 II - Com/Ind. S-4663 Yamada Transfer, Inc. 8/27/2035 8,600.00 U - Com/Ind. 8/28/80-Waiakea, S. Hilo 2-2-37:97 .391 James E. Miles 5-4664 Construction, Inc. 8/27/2035 1.019 U - Com/Ind. 22,500.00 Waiakea, S. Hilo 2-2-37:98 8/28/80-S-4665 H. Harada Contractor, 8/27/2035 \$ 18,100.00 8/28/80-Waiakea, S. Hilo 2-2-58:12 .599 U - Com/Ind. S-4667 HIW-Hawaii, Inc. 8/27/2035

Waiakea, S. Hilo

8/28/80-

8/27/2035

S-4668

Yasuo Kuwaye

2-2-58:39

.601

U - Com/Ind.

13,300.00

ISLAND OF HAWAII

Fiscal Year 1985-86

Term of Tax Map Area Classification Annual Lease Key (Acres) and Use Location No. Tessee Tease 74.314 U - Com/Ind. 125,000.00 2/11/81-Waiakea, S. Hilo 2-1-12:04 Jas. W. Glover, Ltd. S-4670 2/10/2001 Gratis 3-8-01:por. 1 .435 C - Unclass. U.S. of America 12/1/80-Humuula, N. Hilo (D) S-4673 Dept. of Transportation 11/30/2045 Federal Aviation Adm. 510.00 7,279 A - Int. Ag. 1/1/81-Keahole Ag. Park, 7-3-49:01 S-4680 Eugene & Carol Gall 12/31/2035 N. Kona 4.551 A - Int. Ag. 320.00 1/1/81-Keahole Ag. Park, 7-3-49:02 Soyei Arakaki S-4681 12/31/2035 N. Kona 350.00 1/1/81-7-3-49:03 5.007 A - Int. Ag. Keahole Ag. Park, S-4682 Kazumi Shigezawa 12/31/2035 N. Kona 5.005 A - Int. Ag. 350.00 1/1/81-Keahole Ag. Park, 7-3-49:04 S-4683 Sarge Kobayashi 12/31/2035 N. Kona 420.00 1/1/81-Keahole Ag. Park, 7-3-49:05 6.023 A - Int. Aq. S-4684 Alika & Alma Cooper 12/31/2035 N. Kona 5.183 \$ 360.00 A - Int. Aq. 1/1/81-Keahole Ag. Park, 7-3-49:06 S-4685 Frederick S. & Nancy K. Nonaka 12/31/2035 N. Kona 355.00 5.047 A - Int. Ag. 1/1/81-Keahole Ag. Park, 7-3-49:07 S-4686 R. Kelly Greenwell 12/31/2035 N. Kona A - Int. Ag. 335.00 1/1/81-7-3-49:08 4.758 Keahole Ag. Park, S-4687 Kona Orchids, 12/31/2035 N. Kona Inc. 570.00 7-3-49:09 8.164 A - Int. Ag. 1/1/81-Keahole Ag. Park, S-4688 Exotics Hawaii-Kona, 12/31/2035 N. Kona Inc. 355.00 A - Int. Ag. 1/1/81-Keahole Ag. Park, 7-3-49:10 5.061 S-4689 Monico Castillo 12/31/2035 N. Kona 335.00 4.758 A - Int. Ag. 1/1/81-Keahole Ag. Park, 7-3-49:11 S-4690 Shoji & Yoshie 12/31/2035 Kawahara N. Kona 355.00 1/1/81-Keahole Ag. Park, 7-3-49:12 5.047 A - Int. Ag. S-4691 Keahole Nursery, Inc. 12/31/2035 N. Kona 1.00 II - Inclass. 7/1/79-Kaumana, S. Hilo 2-5-04 .227 Hilo Association to (D) S-4696 Full Term Roadway Help Retarded Citizens 6/30/2054 1,822.00 U - Unclass. Pahoa Village Lots, 1-5-117:24 & 25 .689 6/1/80-S-4698 Kinoole Baptist Church Church 5/31/2035 Keonepoko Iki, Puna U - Unclass. 1.00 11/1/78-321.800 Keahole Airport, 7-3-43:3&4 S-4717 Natural Energy Laboratory of Hawaii 10/31/2034 N. Kona \$ 1.00 1.000 U - Crippled 7/1/81-Piihonua, S. Hilo 2-3-15:01 (D) S-4725 Easter Seal Society Children Ctr 6/30/2046 of Hawaii 1.00 A - Agr. Trng. 5/1/81-Ponahawai, S. Hilo 2-5-06:11 59.143 (D) S-4726 Hawaii County Economic Opportunity Council 4/30/2001 Purposes 10.033 1,205.00 1/1/82-Lot 1, Panaewa Ag Park, Waiakea, 2-2-56:27 A - Int. Ag. S-4748 Guy Ha 12/31/2036 S. Hilo Lot 2, Panaewa Ag Park, Waiakea, S. Hilo 1/1/82-2-2-56:28 10.191 A - Int. Ag. 1,225.00 S-4749 Clarence Kim 12/31/2036 1,205,00 1/1/82-Lot 3, Panaewa Ag 2-2-56:29 10,052 A - Int. Ag. S-4750 Richard M.C. Kim, Inc. 12/31/2036 Park, Waiakea, S. Hilo Lot 4, Panaewa Ag 2-2-56:30 10.112 A - Int. Ag. 1,215,00 1/1/82-S-4751 Panaewa Farm, Inc. Park, Waiakea, 12/31/2036 S. Hilo 1,205.00 Lot 5, Panaewa Ag 10.032 A - Int. Ag. 2-2-56:31 S-4752 Alika & Alma Cooper 1/1/82-Park, Waiakea, 12/31/2036 S. Hilo Lot 6, Panaewa Ag Park, Waiakea, S. Hilo 10.212 A - Int. Ag. 1,225.00 2-2-56:32 S-4753 1/1/82-Philip J. & Carole K. 12/31/2036

ISLAND OF HAWAII

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4754	Harris S. & Elizabeth L. Asahara	1/1/82- 12/31/2036	Lot 7, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:33	10.170	A - Int. Ag.	\$ 1,220.00
S-4755	George T. Nishimura	1/1/82- 12/31/2036	Lot 8, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:34	10.083	A - Int. Ag.	1,210.00
S-4756	Kaohu Mark Cooper	1/1/82- 12/31/2036	Lot 9, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:35	10.021	A - Int. Ag.	1,205.00
S-4757	Raymond H. & June M. Savella	1/1/82- 12/31/2036	Lot 10, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:36	10.042	A - Int. Ag.	1,205.00
S-4758	Sumio & Kiyoko Janet Masumoto	1/1/82- 12/31/2036	Lot 11, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:37	20.065	A - Int. Ag.	2,005.00
S-4759	Masao & Evelyn Y. Nakamura	1/1/82- 12/31/2036	Lot 12, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:38	20.016	A - Int. Ag.	2,000:00
S-4760	Donald S. & Helen E. Shintaku	1/1/82- 12/31/2036	Lot 13, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:39	18.698	A - Int. Ag.	1,870.00
S-4761	Katsuki & Jane K. Kubo	1/1/82- 12/31/2036	Lot 14, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:40	20.099	A - Int. Ag.	2,010.00
S-4762	Jack L. Branco	1/1/82- 12/31/2036	Lot 15, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:41	20.650	A - Int. Ag.	\$ 2,065.00
S-4763	Ono Nut Farms, Inc.	1/1/82- 12/31/2036	Lot 16, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:42	20.025	A - Int. Ag.	2,000.00
S-4764	Young Dai Kim	1/1/82- 12/31/2036	Lot 17, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:43	10.003	A - Int. Ag.	1,200.00
S-4765	Jules J. Jr.& Soontaree Gervais	1/1/82- 12/31/2036	Lot 18, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:44	10.087	A - Int. Ag.	1,210.00
S-4766	Daniel L. & Velva Mae Lappala	1/1/82- 12/31/2036	Lot 19, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:45	10.030	A - Int. Ag.	1,205.00
S-4767	James & Julie A. Farrell	1/1/82- 12/31/2036	Lot 20, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:46	10.146	A - Int. Ag.	1,220.00
S-4768	Richard M. & Ruth H. Matsuura	1/1/82- 12/31/2036	Lot 21, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:47	10.011	A - Int. Ag.	1,200.00
S-4769	Roy S. & H. Eunice Shigenaga	1/1/82- 12/31/2036	Lot 22, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:481	10.070	A - Int. Ag.	1,210.00
S-4770	Yoshiyuki & Sandra T. Ota	1/1/82- 12/31/2036	Lot 23, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:49	10.024	A - Int. Ag.	\$ 1,205.00
S-4771	Calvin F. & Doreen T. Nogami	1/1/82- 12/31/2036	Lot 24, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:50	10.059	A - Int. Ag.	1,205.00
S-4772	Shigeji & Mieko M. Kawasaki	1/1/82- 12/31/2036	Lot 25, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:51	10.011	A - Int. Ag.	1,200.00
S-4773	Kiyoshi & Lily M. Inada	1/1/82- 12/31/2036	Lot 26, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:52	10.010	A - Int. Ag.	1,200.00
S-4774	Thomas Y. & Sharon S. Kadota	1/1/82- 12/31/2036	Lot 27, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:53	10.203	A - Int. Ag.	1,225.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4775	Henry M. & Loraine Y. Terada	1/1/82- 12/31/2036	Lot 28, Panaewa Ag Park, Waiakea, S. Hilo	2-2-56:54	10.119	A - Int. Ag.	1,215.00
S-4786	Hilo Trading Co., Ltd.	3/23/82- 3/22/2037	Waiakea, S. Hilo	2-1-03:por. 8	1.010	U - Com/Ind.	16,000.00
S-4787	Alan Curry	3/23/82- 3/22/2017	Kau & Nukakaia, Kau	9-4-05:16	30.649	A - Pasture	900.00
S-4789	Llewellyn L. Biven & Francine D. Sapla	3/23/82 - 3/22/2017	Lot 11, Papa Hmstds. Papa 1st, S. Kona	8-8-04:11	7.210	A - Int. Ag.	\$3,325.00
S-4790	Fred Soriano	3/23/82- 3/22/2017	Lot 10, Papa Hmstds. Papa 1st, S. Kona	8-8-04:10	7.850	A - Int. Ag.	3,320.00
S-4791	Raymond H. Nicola, Jr.	5/1/82- 4/30/2037	Lot 1, Pahoa Ag Pk. Ph II, Keonepoko Iki, Puna	1-5-116:28	5.002	A - Int. Ag.	350.00
S-4792	Michael Y.W. Au	5/1/82- 4/30/2037	Lot 2, Pahoa Ag Pk. Ph II, Keonepoko Iki, Puna	1-5-116:29	5.002	A - Int. Ag.	350.00
S-4793	Francis C.K. & Cresencia A. Mau	5/1/82- 4/30/2037	Lot 3, Pahoa Ag Pk. Ph II, Keonepoko Iki, Puna	1-5-116:30	5.002	A - Int. Ag.	350.00
S-4794	Clifford N. Kaminaka	5/1/82- 4/30/2037	Lot 4, Pahoa Ag Pk. Phase II, Keonepoki Iki, Puna	1-5-116:31	5.000	A - Int. Ag.	350.00
S-4795	Oliver K. & Maizie K. Roberts	5/1/82- 4/30/2037	Iot 5, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:32	5.000	A - Int. Ag.	\$ 350.00
S-4796	Kenneth M. Delimont, Jr. & Karen Delimont	5/1/82- 4/30/2037	Lot 6, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:33	5.002	A - Int. Ag.	350.00
S-4797	Sotero G. & Honorata M. Ganir	5/1/82- 4/30/2037	Lot 7, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:34	5.002	A - Int. Ag.	350.00
S-4799	Neil Anderson	5/1/82- 4/30/2037	Lot 9, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:36	5.002	A - Int. Ag.	350.00
S-4800	Curtis K. Kohashi	5/1/82- 4/30/2037	Lot 19, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:46	5.009	A - Int. Ag.	350.00
S-4801	Ronald T. & Merlene S. Nitta	5/1/82- 4/30/2037	Lot 10, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:37	5.000	A - Int. Ag.	350.00
S-4802	Big Island Growers, Ltd.	5/1/82- 4/30/2037	Lot 11, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:38	5.000	A - Int. Ag.	\$ 350.00
S-4803	Richard T. Iwasaki	5/1/82- 4/30/2037	Lot 12, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:39	5.002	A - Int. Ag.	350.00
S-4804	Dennis M. & Marion Kapuras	5/1/82- 4/30/2037	Lot 13, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:40	5.002	A - Int. Ag.	350.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
-4805	Wade M. Okamoto	5/1/82- 4/30/2037	Lot 14, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:41	5,002	A - Int. Ag.	350.0
S-4806	Eugene & Gloria G. Kaluna	5/1/82- 4/30/2037	Iot 15, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:42	5.266	A - Int. Ag.	370.0
-4807	Elston Takayama & Lew Nakamura	5/1/82- 4/30/2037	Iot 16, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:43	5.335	A - Int. Ag.	375.0
- 4808	Monico & Raymonda E. Lombe	5/1/82- 4/30/2037	Lot 17, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:44	5.511	A - Int. Ag.	\$ 385.0
5-4809	Pahoa Farms, Ltd.	5/1/82- 4/30/2037	Iot 18, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:45	5.842	A - Int. Ag.	410.0
5-4810	Neal T. Okimoto	5/1/82- 4/30/2037	Lot 20, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:47	5.200	A - Int. Ag.	365.0
3 – 4811	Leonard P. Paresa, Jr.	5/1/82- 4/30/2037	Lot 21, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:48	5.656	A Int. Ag.	395.0
S-4816	Richard W. & Sandra L. Whiting	5/1/82- 4/30/2037	Lot 26, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:53	6.132	A - Int. Ag.	430.0
-4 817	Yoso & Kikuko Kuwahara	5/1/82- 4/30/2037	Lot 27, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:54	6.392	A - Int. Ag.	\$ 445.0
-4819	Teruo & Natsuyo Obayashi	5/1/82 - 4/30/2037	Lot 29, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:56	6.046	A - Int. Ag.	425.0
-4820	Glenn J. Morrison	5/1/82- 4/30/2037	Lot 30, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:57	5.064	A - Int. Ag.	355.0
-4821	Wajira Wansa	5/1/82 - 4/30/2037	Lot 31, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:58	5.017	A - Int. Ag.	350.0
5-4822	Steven L. Oleson	5/1/82- 4/30/2037	Lot 32, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:59	5.005	A - Int. Ag.	350.0
5-4823	Russell I. & Laura S. Kuwahara	5/1/82- 4/30/2037	Lot 33, Pahoa Ag Pk. Phase II, Keonepoko Iki, Puna	1-5-116:60	5.770	A - Int. Ag.	405.0
-4824	Kenneth M. Kudo	5/1/82-		1-5-116:05	10.000	A - Int. Ag.	\$ 900.0
-4824	Refuecti M. Rudo	4/30/2037	Pk. Phase I, Keonepoko Iki,	1 3 120.03	53	4 A- 4 - 6	
-4829	County of Hawaii	1/1/82- 12/31/2002	Puna Waiakea, S. Hilo	2-1-13:142 2-1-13:156	60.000	U - Unclass. Sanitary	Grati
						Land Fill	
3 –4 830	Walter F. Weldon, Jr., Norman L. Kasparson, E.J. Caldecott & James J. Degman, Trustees	7/31/82 - 7/30/2007	Ooma 2, N. Kona	7-3-09:05	.951	U - Unclass. ROW	10,838.0 Full Ter

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4831	Tamotsu Kitagawa	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:14	5.272	A - Int. Ag.	475.00
S-4832	Alexander & Betty Y. Tirado	10/1/82 - 9/30/2037	Keahole Ag Park, Phase II	7-3-49:15	5.111	A - Int. Ag.	460.00
S-4833	Patrick T. Denison	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:16	5.421	A - Int. Ag.	490.00
S-4834	Stanley T. & Cynthia T. Tomono	10/1/82 - 9/30/2037	Keahole Ag Park, Phase II	7-3-49:17	5.110	A - Int. Ag.	460.00
S-4835	Melvin N. & Mitzi Kadohiro	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:18	5.906	A - Int. Ag.	530.00
S-4836	Josanne M. Ma	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:19	5.015	A - Int. Ag.	\$450.00
S-4837	Curtis Y. Nakaoka	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:20	5.015	A - Int. Ag.	450.00
S-4838	Robert H. Elliott	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:21	5.015	A - Int. Ag.	450.00
S-4839	Fetulima & Brenda L. Tamasese	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:22	5.015	A - Int. Ag.	450.00
S-4840	Chiaki & Sadako Kato	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:23	5.027	A - Int. Ag.	450.00
S-4841	Alvin & Lynn F. Sato	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:24	5.027	A - Int. Ag.	450.00
S-4842	Joseph & Ellen S. Cathcart	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:25	5.027	A - Int. Ag.	450.00
S-4843	Gilbert W. C. & Dolly D. Loo	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:26	5.055	A - Int. Ag.	455.00
S-4844	Paulino P. & Felisa T. Gampon	10/1/82 - 9/30/2037	Keahole Ag Park Phase II	7-3-49:27	5.534	A - Int. Ag.	500.00
S-4845	Orchid Farm, Inc.	10/1/82 - 9/30/2037	Keahole Ag Park, Phase II	7-3-49:28	6.697	A - Int. Ag.	600.00
S-4846	Clarence A. & Pansy W. Medeiros	10/1/82 - 9/30/2037	Keahole Ag Park, Phase II	7-3-49:29	5.027	A - Int. Ag.	\$450.00
S-4847	James I. & Patricia H. Kuroiwa	10/1/82 - 9/30/2037	Keahole Ag Park, Phase II	7-3-49:30	5.027	A - Int. Ag.	450.00
S-4848	Howard R. & Linda E. Bradley	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:31	5.027	A - Int. Ag.	450.00
S-4849	William R. & Gay W. Glover	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:32	5.013	A - Int. Ag.	450.00
S-4850	John P. & Christine R. Wilkinson	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:33	5.013	A - Int. Ag.	450.00
S-4851	Konacoast Farms, Inc.	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:34	5.013	A - Int. Ag.	450.00
S-4852	Henry W. & Marvalene I. Kanahele	10/1/82- 9/30/2037	Keahole Ag Park, Phase II	7-3-49:35	5.452	A - Int. Ag.	490.00
S-4854	University of Hawaii	1/1/82- 12/31/2036		2-2-56:56	110.206	A - Pasture	Gratis
S-4858	Joseph F. & Helen D. Pickering	9/1/78- 8/31/2043	Lalamilo, Waimea, S. Kohala	6-9-02:por. 9	.032	U - Unclass. ROW	5,000.00 Paid in Full
S-4880	Bobbie's Steak & Lobster, Ltd.	5/13/83- 5/12/2023	Kanakea Fishpond, Waiakea, S. Hilo	2-1-06:10	.008	U - Unclass. Easement	2,168.00
S-4881	County of Hawaii	5/13/83 - 5/12/2023	Former Pepeekeo School Lot, Kulaimano, S. Hilo	2-8-06:12	4.900	U - Rec.	Gratis
S-4915	United States Postal Service	2/20/8 4- 2/19/2039	Manowaiapae, N. Hilo	3-6-09:32 & 33	.230	U - Unclass. Post Office	\$1,200.00
S-4920	Hamakua Associates of Farmers	12/1/84- 11/30/2004	Paalaea Land 2, Hamakua	4-5-01:11&12	11.409	A - Int. Ag.	1.00

ISLAND OF HAWAII

Fiscal Year 1985-86

No.	Lessee	Lease	Location	Key	(Acres)	and Use	Rental
S-4950	Boteilho Hawaii Enterprises, Inc.	4/1/85- 3/31/2020	Opihipau & Hukiaa, N. Kohala	5-5-06:02,03, 04 and 15	597.406	A - Pasture	21,000.00
S-4952	Yotsuo Fuke Sakae Fuke	1/1/85 - 12/31/2049	Waiakea, S. Hilo	2-4-56:14	.099	U - Unclass.	2,100.00 Full Term
S-4954	Pacific Paradise, Inc.	4/11/85 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:07, 15, 16, & 18	655.990	A - Int. Ag.	7,425.00
S-4955	Pacific Paradise, Inc.	4/11/85- 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:19, 20	816.000	A - Int. Ag.	4,050.00
S-4956	Antonio Makaena Akiu	7/22/85- 7/21/2050	Lot 1, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.175	C - Res.	132.00
S-4957	Steven Kepano Kuahuia	7/22/85 - 7/21/2050	Iot 2, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4958	Pacita Billings	7/22/85 - 7/21/2050	Iot 3, Milolii Hoopuloa Iots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$ 132.00
S-4959	Myrah Malaea Kamaka	7/22/85 - 7/21/2050	Lot 4, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4960	Leilani Maulili Kahele	7/22/85 - 7/21/2050	Lot 5, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4961	Dora K. Halena	7/22/85- 7/21/2050	Lot 6, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4962	Robelto Kaleianuinui Martines	7/22/85 - 7/21/2050	Lot 7, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4963	Amoe Casuga	7/22/85 - 7/21/2050	Lot 8, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4964	Abel Pepe Kahele	7/22/85 - 7/21/2050	Lot 10, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4965	Raymond Kukulu Kuahuia	7/22/85- 7/21/2050	Lot 11, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$132.00
S-4966	Delfrado J. Leanes, Jr.	7/22/85 - 7/21/2050	Lot 13, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.180	C - Res.	132.00
S-4967	Eugene Holualoa Chang	7/22/85- 7/21/2050	Lot 16, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.230	C - Res.	132.00
s-5000	Tsugio Sakata	3/31/67- 3/30/2032	Por. Govt Land Waimea, S. Kohala	6-5-04:por. 15	.012	U - Unclass. ROW	13.00
s-5001	K. Kobata & Sons	3/31/67- 3/30/2022	Waiakea, S. Hilo	2-2-32:10	.988	U - Com/Ind.	27,894.00
S-5003	Francis C. De Morales	3/31/67- 3/30/92	Waiakea Hmstds., S. Hilo	2-4-06:12 2-4-07:37	130.390	A - Pasture	330.00
S-5004	Sueichi & Yoshiko Kawashima	3/31/67- 3/30/92	Paauilo, Hamakua	4-3-15:10	3.040	A - Int. Ag.	121.00
S-5005	Puna Certified Nursery, Inc.	3/31/67- 3/30/2002	Keonepoko-Nui, Puna	1-5-08:05	5.000	A - Int. Ag.	576.00
S-5015	Motoshi Sako	5/19/67- 5/18/2002	Por. Gov't. Land of Olaa, Puna	f 1-7-01:63	.466	U - Com/Ind.	485.00
S-5017	Dorothy E. Nishie & Grace M. Shima, Trustees	5/19/67- 5/18/2032	por. Lalamilo, Waimea, S. Kohala	6-6-09:52	.033	U - Unclass. ROW	\$ 28.00
S-5018	Pacific Standard Life Insurance Company	5/19/67- 5/18/2032	Ocean View Lots, Waiakea, S. Hilo	2-1-05:21 & 31	1.091	U - Com/Ind.	10,600.00

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ISLAND OF HAWAII

Fiscal Year 1985-86

Lease		Term of Lease Location	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental		
No.	Lessee			6-3-02:04	5,844.000	C - Watershed	8,000.00		
-5019	Kohala Ditch Co.,	5/19/67- 12/31/91	Hamakua & N. Kohala	& 05		A - Int. Ag.	1,856.00		
	Ltd.	5/19/67-	Awalua-Haena Gov	't. 5-6-01:01	185.550 8.800	Cane			
5020	Richard Smart	5/18/92	Tract, N. Kohala	a	14.480 22.250 231.080	ROW Waste Pasture	67.00 \$ 1,923.00		
					2000		\$ 1,923.00		

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ISLAND OF HAWAII

tion Annual e Rental	

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4950	Boteilho Hawaii Enterprises, Inc.	4/1/85- 3/31/2020	Opihipau & Hukiaa, N. Kohala	5-5-06:02,03, 04 and 15	597.406	A - Pasture	21,000.00
S-4952	Yotsuo Puke Sakae Puke	1/1/85 - 12/31/2049	Waiakea, S. Hilo	2-4-56:14	.099	U - Unclass.	2,100.00 Full Term
S-4954	Pacific Paradise, Inc.	4/11/85 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:07, 15, 16, & 18	655.990	A - Int. Ag.	7,425.00
S-4955	Pacific Paradise, Inc.	4/11/85- 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:19, 20	816.000	A - Int. Ag.	4,050.00
S-4956	Antonio Makaena Akiu	7/22/85- 7/21/2050	Lot 1, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.175	C - Res.	132.00
S-4957	Steven Kepano Kuahuia	7/22/85 - 7/21/2050	Lot 2, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4958	Pacita Billings	7/22/85 - 7/21/2050	Lot 3, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$ 132.00
S-4959	Myrah Malaea Kamaka	7/22/85 - 7/21/2050	Lot 4, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4960	Leilani Maulili Kahele	7/22/85- 7/21/2050	Lot 5, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4961	Dora K. Halena	7/22/85 - 7/21/2050	Lot 6, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4962	Robelto Kaleianuinui Martines	7/22/85 - 7/21/2050	Lot 7, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4963	Amoe Casuga	7/22/85 - 7/21/2050	Lot 8, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4964	Abel Pepe Kahele	7/22/85 - 7/21/2050	Lot 10, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00
S-4965	Raymond Kukulu Kuahuia	7/22/85 - 7/21/2050	Lot 11, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$132.00
S-4966	Delfrado J. Leanes, Jr.	7/22/85 - 7/21/2050	Lot 13, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.180	C - Res.	132.00
S-4967	Eugene Holualoa Chang	7/22/85- 7/21/2050	Lot 16, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.230	C - Res.	132.00
S-5000	Tsugio Sakata	3/31/67- 3/30/2032	Por. Govt Land Waimea, S. Kohala	6-5-04:por. 15	.012	U - Unclass. ROW	13.00
s-5001	K. Kobata & Sons	3/31/67- 3/30/2022	Waiakea, S. Hilo	2-2-32:10	.988	U - Com/Ind.	27,894.00
S-5003	Francis C. De Morales	3/31/67- 3/30/92	Waiakea Hmstds., S. Hilo	2-4-06:12 2-4-07:37	130.390	A - Pasture	330.00
S-5004	Sueichi & Yoshiko Kawashima	3/31/67- 3/30/92	Paauilo, Hamakua	4-3-15:10	3.040	A - Int. Ag.	121.00
s-5005	Puna Certified Nursery, Inc.	3/31/67- 3/30/2002	Keonepoko-Nui, Puna	1-5-08:05	5.000	A - Int. Ag.	576.00
S-5015	Motoshi Sako	5/19/67 - 5/18/2002	Por. Gov't. Land of Olaa, Puna	1-7-01:63	.466	U - Com/Ind.	485.00
S-5017	Dorothy E. Nishie & Grace M. Shima, Trustees	5/19/67- 5/18/2032	por. Lalamilo, Waimea, S. Kohala	6-6-09:52	.033	U - Unclass. ROW	\$ 28.00
S-5018	Pacific Standard Life Insurance Company	5/19/67- 5/18/2032	Ocean View Lots, Waiakea, S. Hilo	2-1-05:21 & 31	1.091	U - Com/Ind.	10,600.00

ISLAND OF HAWAII

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
5-5019	Kohala Ditch Co., Ltd.	5/19/67- 12/31/91	Hamakua & N. Kohala	6-3-02:04 & 05	5,844.000	C - Watershed	8,000.00
5-5020	Richard Smart	5/19/67- 5/18/92	Awalua-Haena Gov't. Tract, N. Kohala	5-6-01:01	185,550 8,800 14,480 22,250 231,080	A - Int. Ag. Cane ROW Waste Pasture	1,856.00 67.00 \$ 1,923.00

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SUMMARY OF GENERAL LEASES

SECOND LAND DISTRICT - ISLAND OF MAUI

Fiscal Year 1985-86

Use 1/	Area (Acres)	Annual Rental	No. of Leases 2/	
Intensive agriculture use	6,996.160	\$ 231,814.06	39	
Special livestock use				
Pasture use	2,841.345	27,560.00	22	
Commercial timber use				
Quarry use				
Mining use		-		
Recreational use	57.152	480.00	4	
Watershed use	81.159	15,585.00	3	
Res. use	6.800	2,680.00	3	
Commercial and industrial use	113.562	32,680.50	7	
Hotel, apartment and motel use				
Resort use				
Unclass. uses	43.586	3,681.20	26	
Totals	10,139.764	\$ 314,480.76	104	

GENERAL LEASES

ISLAND OF MAUI

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)		Annual Rental
S-3588	Pioneer Mill Co.; Ltd.	1/01/60- 12/31/89	Honokowai, Lahaina	4-4-01:15, 19 & 22 4-4-02:03, 08 11, 15, 18 & 20, 4-4-04:02 & 06	734.396 42.335 174.011 95.196 9.660 7.864	A - Intensive Ag Contributory Pasture Waste New Highway Other Use	\$ 20,386.39
S-3637	Marion R. & Emma Lou Rogers	4/14/61- 4/13/91	Kawaipapa, inc. Loko Waiohonu, Hana	1-3-07:25	.600	R - Res.	400.00
L-3695	East Maui Irrigation Co., Ltd.	7/01/62- 6/30/86	Honomanu Water License, Koolau	1-1-01:44	3.159	C - Watershed Water License	15,510.00
S-3717	West Maui AJA Veterans Club	11/05/62- 11/04/87	Wahikuli Hselots, Lahaina	4-5-14:51	.460	U - Rec.	200.00
o) S-3749	U.S.A. Corps of Engineers (Army)	4/19/63- 4/18/2028	Papaanui, Makawao (Honuaula)	2-2-07:11	4.450	C - Unclass. Fed.	Gratis
S-3817	Maui Young Men's Christian Assoc.	11/24/64- 11/23/2019	Keanae, Hana (Koolau)	1-1-02:09	7.742	A - Rec.	150.00
S-3857	Leslie W. & Coila I. Eade	8/17/64- 8/16/99	Between Hana Hwy. & Sea, Papaahau, Hana	1-4-03:01	5.200	A - Res. & C - Pasture	\$ 1,530.00
) S-3918	University of Hawaii	5/28/65 - 5/27/2030	Kealahou 1 & 2, Waiakoa, Makawao, Kula	2-2-11:33	20.674	A - Int. Ag.	Gratis
S-3920	Joseph Young	7/20/65- 7/19/85	Lots 12-A, 13-A, 26-A, 32, 32-A & Parcel 54, Wailua Hmstds., Hana	1-1-05:17, 25, 45 & 54	5.930	A - Int. Ag.	177.00
S-3922	Cecilia Kaauamo	7/20/65- 7/19/85	Lots 2-A, 18-A, 21-A & 22-A, Wailua Hmstds., Koolau, Hana	1-1-04:13 & 30	2.990	A - Int. Ag.	80.00

^{2/} Leases awarded directly are preceeded by "D". All others are awarded by public auction.

ISLAND OF MAUI

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)		Annual Rental
s-3947	George W. Murphy dba Puuohoku Ranch	6/01/66- 5/31/86	Por. Honouliwai, Makai of Molokai Forest Reserve	5-8-03:12 5-8-15:09	576.120	A - Pasture	2,300.00
S-3964	Joseph K. & Christy D. Daniels	6/01/66- 5/31/86	Waiohonu-Kakio Hana	1-4-11:04	35.850	A - Pasture	100.00
S-3965	Samuel Kaauamo	6/01/66- 5/31/86	Wailua Hmstds., Hana	1-1-05:52	2.630	A - Int. Ag.	55.00
S-3984	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lahainaluna School Lands, Lahaina	4-6-18:04	71.130 3.770 87.700 162.600	A - Int. Ag. Cane Contributory Waste	\$ 1,872.50
S-3985	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lahainaluna School Lands, Lahaina	4-6-18:06 & 10	38.600 3.810 38.189 80.599	A - Int. Ag. Cane Contributory Waste	1,060.25
S-4015	Joe Castro, Jr.	10/17/66- 10/16/86	Kahakuloa Hmstds., Wailuku	3-1-01:21	92.800	A - Pasture	175.00
S-4016	Hana Tropical Fruit Plantation, Inc.	10/17/66- 10/16/2001	Por. Kawaipapa & Wakiu, Hana	1-3-04:06 & 20	421.170	A - Int. Ag.	1,500.00
D) S-4028	Hawaiian Telephone Co.	7/01/66- 6/30/2031	Papaanui, Makawao (Honuaula)	2-2-07:12	.262	C - Com/Ind.	300.00
S-4112	Seaside Developers	9/25/67- 9/24/2032	Kamaole, Wailuku	3-9-04:Por. 01 & 61	.340	U - Unclass. ROW	150.00
S-4189	Hana Ranch Co., Ltd.	3/07/68- 3/06/88	Hamoa, Hana	1-4-07:07	1.000	A - Pasture	45.00
S-4190	Joseph Young	3/07/68- 3/06/88	Wailua, Hana (Koolau)	1-1-06:70	2.760	A - Int. Ag.	82.50
S-4192	Robert Puu	4/22/68- 4/21/88	Wailua Hmstds., Wailua	1-1-04:06 & 08	2.180	A - Int. Ag.	98.00
S-4195	Joseph B. & Jeanette Di Meo	4/22/68- 4/21/2033	Kamaole (Kula)	3-9-05:46	.217	U - Com/Ind.	\$ 710.00
S-4197	Alexander & Baldwin, Inc.	7/01/68- 6/30/2003	Pulehunui & Waikapu, Wailuku	3-8-08:01 & 08	1,207.489 296.415 371.243 1,875.147	A - Int. Ag. Cane Contributory Waste	84,600.00
S-4209	Charles & Mary Kong	10/03/68- 10/02/2023	Keanae Hmstds., Keanae, Hana (Koolau)	1-1-03:70	1.100	A - Int. Ag. & C - Res.	1,070.00
S-4210	Herbert Aronson	10/03/68- 10/02/2023	Keanae, Hana (Koolau)	1-1-03:59	.970	A - Int. Ag. Res.	350.00
S-4211	Stephen & Gerald Perreira	9/12/68- 9/11/88	Water Hole Res., Waiakoa Hmstds., Kula	2-2-15:16	16.550	A - Pasture	125.00
S-4212	John C. Fagan & Walter C. Witte (Irving Louis London, et al)	9/04/68- 9/03/2033	Kamaole, Wailuku	3-9-04:29	1.119	U - Com/Ind.	6,700.00
S-4229	Pioneer Mill Co., Ltd.	2/25/69 - 2/24/94	Wahikuli, Lahaina (Kaanapali)	4-5-21:03, & 04 Por. 10	1,088.642 138.590 228.283 335.810 1,793.576	A - Int. Ag. Cane Contributory Waste, Pastu	
				1-1-01:52	67.000	A - Pasture	\$ 200.00
S-4230	Charles S. Ota	2/25/69- 2/24/89	Honomanu, Hana		13.140	& C A - Int. Ag.	500.00
S-4231	Paul T. & Bernice H. Otani	2/25/69- 2/24/94	Omaopio, Kula	2-3-03:06	10.560	A - Pasture	60.00
S-4232	Frank T. Pacheco	2/25/69- 2/24/94	Puolua, Makawao (Hamakualoa)	2-9-06:07 & 08			
S-4233	Hansel Ah Koi	2/25/69- 2/24/89	Keanae & Pahoa, Hana	1-1-08:08	148.700	A - Pasture	475.00
			Hamakualoa,	2-9-06:21, 22	53.330	A - Pasture	600.00

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ISLAND OF MAUI

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental	
S-4242	Barney Silva	6/05/69- 6/04/94	Honokala, Hamakualoa	2-9-05:20 & 32	28.420	A - Pasture	355.00	
S-4269	Puaahala Enterprises	11/08/69— 11/07/2034	Submerged Lands fronting Ahupuaas, Puuhala & Kaamola, Molokai	5-6-05:35	108.137	C - Com/Ind.	8,500.00	
S-4271	Lahaina Hongwanji Mission	11/24/69- 11/23/2034	Por. Former Lot 21-A Mokuhinia Pond, Wainee, Lahaina	4-6-07:41	.083	U - Unclass. Elee.	225,00	
S-4272	Michael Paul Milner	11/24/69- 11/23/2024	Por. Former Old Kuiaha School Lot, Makawao	2-7-08:15	1.840	A - Int. Ag. Res.	300.00	
S-4273	Amfac, Inc.	11/24/69- 11/23/2034	Offshore Waters of Hanakaco, Lahaina	4-4-06	.130	C - Unclass. ROW	\$ 2.17	
S-4325	Charles S. Ota	12/22/70- 12/21/95	Keokea (Kula)	2-2-04:01, 02, 29 & 66	206.010	A - Pasture	5,500.00	
S-4327	Harry & Rosalina Anita Hasegawa	11/23/70- 11/22/2025	Hamoa, Hana	1-4-08:13	1.000	R - Res.	750.00	
S-4328	Anthony A. & Anna K. Tam	11/23/70- 11/22/95	Wailua-Nui, Hana	1-1-08:05	120.970	A - Pasture & C	405.00	
S-4340	Akea Farms, Inc.	7/22/71- 7/21/2116	Molokai Farm Lots, Hoolehua, Apana 2	5-2-01:09	205.000	A - Int. Ag.	2,400.00	
S-4345	Abraham Akiona	7/22/71- 7/21/91	Wailua Hmstds., Hana (Koolau)	1-1-05:22	.770	A - Int. Ag	35.00	
S-4348	Samuel Akina	7/22/71- 7/21/91	Wailua Hmstds., Hana (Koolau)	1-1-06:43	.400	A - Int. Ag.	30.00	
S-4349	Joseph J. Day	7/22/71- 7/21/91	Wailua Hmstds., Hana (Koolau)	1-1-06:38	.850	A - Int. Ag.	35.00	
S-4350	William H.D. & Anna M. King	7/22/71- 7/21/2026	Ualapue, Kona, Molokai	5-6-02:01	2.100	U - Int. Ag. Res.	1,600.00	
(D) S-4372	U.S. Dept. of Agriculture, Soil Conservation Service	1/01/73- 12/31/98	Par. A-l, Molokai Farm Lots, Palaau- Apana 2	5-2-01:07	81.181	A - Int. Ag.	Gratis	
S-4373	William C. & Heather M. Cole	4/12/73- 4/11/2028	Kealahou 3 & 4, Makawao (Kula)	2-3-37:por. 11	.092	R - Unclass. ROW	\$ 4.96	
S-4374	Virginia & Mark Stephen Cundiff	4/12/73- 4/11/2028	Honokala, Hamakualoa, Makawao	2-9-05:por. 20	.064	A - Unclass. ROW	0.31	
S-4375	Assn. of Owners of Mana- Kai, Maui & Seaside Developers	4/12/73- 9/24/2032	Kamaole, Wailuku (Kula)	3-9-04:por. 01 & 61	.107	U - Unclass. ROW	5.08	
S-4377	Richard Tam Sing	5/11/73- 5/10/93	Kaakakai Gulch, Kohoilo, Makawao (Kula)	2-3-07:15	14.100	A - Pasture	330.00	
(D) S-4433	County of Maui	6/14/74- 6/13/2009	Palaau & Hoolehua, Molokai	5-2-01:02 5-2-04:16	772.242	A - Int. Ag.	Gratis	
	(Sublessees)							
	Hikiola Cooperative, Inc.	5/01-77- 4/30/2007	Palaau & Hoolehua, Molokai	5-2-04:16	(20.604)	A - Int. Ag. (Farmer's Cooperative)	1,030.20	
	Hawaii Tropical Plants, Ltd., Partnership	11/01/77- 10/31/2007	Palaau & Hoolehua, Molokai	5-2-01:18 & 19	(79.104)	A - Int. Ag.	4,746.00	
	William Pheil	2/01/80- 6/13/2009	Palaau & Hoolehua, Molokai	5-2-01:10	(23.701)	A - Int. Ag.	1,422.06	
	Tree Farms of Molokai,	12/1/81- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:17	(30.715)	A - Int. Ag.	\$ 1,842.90	
	William Pfeil	8/1/82- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:16	(26,890)	A - Int. Ag.	1,613.40	

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ISLAND OF MAUI

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
	Grant Schule dba	8/1/82- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:13	(26.890)	A - Int. Ag.	1,678.80
	Joe Kennedy	10/1/82- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:11	(25.304)	A - Int. Ag.	1,518.24
	Seizen Bonk	12/1/82- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:01	(25.890)	A - Int. Ag.	1,553.40
	Maui Community College	12/1/82- 11/30/2008	Palaau & Hoolehua, Molokai	5-2-01:20	(28.148)	A - Int. Ag.	Gratis
	Funk Seeds International	11/01/8 4- 10/31/2008	Palaau & Hoolehua, Molokai	5-2-01:28	(49.147)	A - Int. Ag.	2,948.82
	Hawaiian Research, Ltd.	10/01/77- 9/30/2007	Palaau & Hoolehua, Molokai	5-2-01:12 & 14	(66.160)	A - Int. Ag.	3,969.60
(D) S-4437	U.S. Postal Service	10/01/76 - 9/30/2031	Kealahou 3 & 4, Makawao (Kula)	2-3-02:01	.989	A - Com/Ind. P.O.	720.00
S-4439	Maui Kamaole Enter- prises I	6/24/75 - 6/23/2030	Kamaole, Wailuku (Kula)	3-9-04:por. 61	.103	U - Unclass. ROW	39.55
S-4440	Robert J. Rauenhorst, et al. dba Tahitian Apts.	6/24/75 - 6/23/2030	Kamaole, Wailuku (Kula)	3-9-04:por. 61	.288	U - Unclass. ROW	\$ 110.07
S-4441	Maui Kamaole Enter- prises II	6/24/75 - 6/23/2030	Kamaole, Kihei	3-9-04:01	.087	U - Unclass. ROW	52.50
S-4442	Assn. of Owners of Kihei Surfside	6/24/75 - 6/23/2032	Easement 1, 2 & 3, Kamaole, Wailuku (Kula)	3-9-04:por. 01 & 61	.408	U - Unclass. ROW	271.55
S-4516	Comteck-WHCV (ARSBAND PARTNERS)	1/26/73- 1/25/93	Kolekole Hill of Mt. Haleakala, Papaanui, Makawao, Kula	2-2-07:08	.025	C - Com/Ind.	0.50
(D) S-4518	County of Maui, Dept. of Water Supply	9/26/75 - 9/25/95	Por. Kahului Airport, Kahului	3-8-01:75	2.922	U - Unclass.	Gratis
S-4519	Sylvia Senter	7/08/76- 7/07/2031	Former Kaupakulua School Lot, West Kaupakulua, Makawao (Hamakualoa	2-7-15:26	1.905	A - Int. Ag. Res.	\$ 2,110.00
S-4520	Donald N. Gard, Robert A. & Francine S. Frost	9/01/76 - 8/31/2001	Old School Lot at Kaeleku & Wakiu, Hana	1-3-04:15	4.000	A - Int. Ag.	600.00
S-4521	William F. Butzine & Avery G. Dresden	9/01/76- 8/31/2001	Lot 29-0, Nahiku Hmstds., Nahiku,	1-2-02:01	7.200	A - Int. Ag.	725.00
S-4523	Pioneer Mill Co., Ltd.	7/08/76- 12/31/89	Hana Honokowai, Lahaina	4-4-02:09 & 17	19.500 5.608 25.108	A - Int. Ag. Cane, Waste	492.00
S-4524	Hazel Oliveira & Louis J. Abreu dba H & E Ranch	9/01/76- 8/31/2001	Kawaipapa & Wakiu, Hana	1-3-06:07	407.000	A - Pasture & C	1,200.00
S-4529	Rounds & Porter Lumber Co., Inc.	9/01/76- 8/31/2001	Gov't Land of Kipahulu, Hana	1-6-05:21, 22 & 27; 1-6-08:02 &	76.888 04	A - Pasture	1,675.00
S-4530	Kaupo Ranch, Ltd.	9/01/76- 8/31/2001	Kaupo, Hana	1-7-01:13, 14, 21, 23, 25, 31 & 33; 1-7-02: 1-7-03:32	307.880	A - Pasture & C	1,625.00
S-4531	Kaupo Ranch, Ltd.	9/01/76- 8/31/2001	Kaupo, Hana	1-7-03:24 & 27	78.887	A - Pasture	1,650.00
S-4532	Charles S. Ota dba Landmark Ranch	9/01/76 - 8/31/2001	Waiohuli-Keokea, Makawao	2-2-04:31	139.280	A - Pasture	\$ 4,000.00
S-4533	Charles S. Ota dba Landmark Ranch	9/01/76- 8/31/2001	Waiohuli-Keokea, Makawao	2-2-05:47 & 53	242.390	A - Pasture	3,600.00
S-4535	Murray Hunter &	9/01/76 - 8/31/2001	Hamakualoa, Makawao	2-9-13:14	79.100	A - Pasture	2,700.00

ISLAND OF MAUI

Fiscal Year 1985-86 Annual Area Classification Tax Map Term of Lease (Acres) and Use Rental Location Key Lessee Lease No. 1,390.00 U - Unclass. 4.212 7/08/76-Parcels 1, 2, 3 4-5-14:77 Railroads of Hawaii dba S-4538 ROW 4 & 5, Kapunakea 1 4-5-21:11 & Wahikuli, Lahaina 4-5-17:49 4-5-21:11 Lahaina Kaanapali & 7/07/2016 Pagific Railroad Co. 4-5-30:138 Gratis A - Unclass. 2-3-06:06 14.150 3/10/78-Kalialinui, County of Maui, Dept. (D) S-4540 Reservoir/ Makawao (Kula) 3/09/2043 of Water Supply Accessory 180.00 3.000 U - Unclass. 3-9-01:12 Wajohuli. The Episcopal Church 5/24/74-(D) S-4544 Elee. Wailuku (Kula) 5/23/2039 in Hawaii 19.54 A - Unclass. 7/01/77-Wakiu, Hana 1-3-04:06, 11 & 20 .805 Robert Daniel & S-4562 ROW 6/30/2042 Patricia M. Omer 53.33 U - Unclass. .292 Kahului 3-7-02:por. 04 1/02/74-Honofed Corp. S-4567 Water/Sewer Lines & 22 1/01/2029 2.399 R - Unclass. \$ 100.00 2-3-37:11 11/07/77-Kealahou, Kula Haleakala School (D) S-4570 Elee. 10/31/2042 141.00 A - Unclass. Honokowai Vallev, 4-4-07:05 por. 4.267 3/28/78-Amfac, Inc. S-4583 ROW Lahaina 3/27/98 A - Unclass. 6.56 10/01/78-2-9-06:21 & 25 .800 Mokupapa, S-4593 Gregory P. & Masako ROW & C Hamakualoa, Makawao 2-9-14:11 9/30/2043 Westcott 2.813 U - Com/Ind. 15,750.00 4-5-21:14 3/23/79-Honoapiilani Hwy. (D) S-4599 U.S. Postal Service P.O. 3/22/2034 (East Side), Wahikuli, Lahaina 5-8-03:6 & 12 A - Unclass. 1.58 .155 Honouliwai, 11/28/75-S-4613 John D. Dale, ROW 11/27/2030 Molokai David G. Knotter & Larry Carlson & Jean Machida Egusa A - Watershed 32.00 1-5-11:por. 7 39,000 10/30/79-Kaumakani & Airia O Kipahulu Assn. S-4660 & C Water License Puaaluu, Kipahulu, 1-6-02:por. 9 10/29/2044 Hana 43.00 A - Watershed 10/30/79-Kaumakani & 1-5-11:por. 7 39.000 S-4661 Hara Ranch, Inc. & C Water License Puaaluu, Kipahulu, 1-6-02:por. 9 10/29/2044 Hana U - Unclass. Gratis 2.008 4-6-07:01 3/27/81-Waiokama, Lahaina County of Maui (D) S-4727 (Multi-Use 3/26/2046 Community Facility) \$ 10.00 A - Rec. 1-1-02:08 1.270 11/24/81-Portion of Govt (D) S-4828 Maui Young Men's 11/23/2019 Crown Land of Christian Assoc. Keanae, Koolau A - Youth 'Activities 120.00 47.680 7/01/83 Kahakuloa Hmstds., 3-1-01:29 Maui County Council, (D) S-4857 Inc., BSA 6/30/2038 Kahakulo, Wailuku Gratis 1.204 C - Unclass. 3-6-01:08 U.S.A., Federal Aviation 7/1/84-Kealalaloa. (D) S-4936 (Federal) 6/30/2004 Ukumehame Agency 870.00 Lahainaluna Sch. 25.924 U - Int. Ag. 4-6-18:13 & 17 Pigneer Mill Co., Ltd. 5/23/67-S-5008 Cane, Waste Kam III School 6.759 9.400 Lands, Lahaina & A 5/22/87 42,083 A - Pasture & C 360.00 59.910 Wailua-Nui, Hana 1-1-08:14 Edward B. & Sylvia 5/23/67-S-5010 (Koolau) Mildred Perreira 5/22/87 A - Unclass. 28.00 .176 5/23/67-Honouliwai 5-8-03:por. 12 Leigh-Wai Doo S-5011 ROW 5/22/2032 80.00 A - Pasture 3-1-01:04 78,600 Lot 10, Kahakuloa Nobriga's Ranch, Inc. 10/17/66-S-5014 Hmstds., Kahakuloa, Wailuku (Kaanapali) & C 10/16/86 U - Unclass. Gratis Lahainaluna School, 4-6-18:por. 5 1,000 3/14/80-S-pending County of Maui, Water Tank Dept. of Water Supply 3/13/2045 Lahaina

5

U - Unclass.

Easement

.044

900.00

Paunau, Lahaina

A.D. Furtado Properties,

Trust

S-5124

7/11/85-

7/10/2005

4-6-01:adi

parcels 05 & 06

SUMMARY OF GENERAL LEASES

THIRD LAND DISTRICT - ISLAND OF OAHU

Fiscal Year 1985-86

Use 1/	Area (Acres)	Annual Rental	No. of Leases
Intensive agriculture use Special livestock use	1,268.915	\$ 124,680.00	49
Pasture use Commercial timber use	3,584.415	8,506.00	5
Quarry use Mining use			=
Recreational use Watershed use	66.583 1,534.500	301.00 32,600.00	3
Res. use Commercial and industrial use	23.864 190.403	3,602.00 1,004,405.00	32 35
Hotel, apartment and motel use Resort use		1,004,405.00	
Unclass, uses	8,053.963	321,179.54	89
Totals	14,722.643	\$1,495,273.54	214

 $[\]underline{1}/$ The following Land Use Commission classification is used throughout: A - Agriculture C - Conservation R - Rural U - Urban

GENERAL LEASES

ISLAND OF CAHU

Fiscal Year 1984-85

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
(D) L-1755	Hawaiian Electric Co., Ltd.	4/07/26- Indefinite	Auwaiolimu & Kewa- lo	-4.	.210	U - Unclass. ROW	\$ 1.00
(D)S-1756	Hawaiian Electric Co., Ltd.	6/21/72- Indefin	Waialea, Koolauloa		1.020	C - Unclass.	12.00
(D)S-3702	Honolulu Gas Co., Itd.	3/21/62- 3/20/92	Wilikina Dr., Wahiawa	7-3-01	.051	U - Unclass. ROW	220.00
S-3709	The Oceanic Institute	8/21/62- 8/20/2027	Waimanalo, Koolau- poko	4-1-14:03, 04 & por.07	118.000	U - Unclass. Elee.	12,000.00
S-3726	Pacific (Heftel) Broadcasting Company of Hawaii, Inc.	1/12/63- 1/11/83	Ala Wai Blvd., Kalia, Waikiki	2-6-13	1.236	U - Unclass. ROW	130.00
S-3727	Amancio R. & Serafina Nacapoy	1/14/63- 1/13/2028	Kaluapalena, Kalihi	1-3-11	.153	U - Unclass. ROW	19.20
D) S-3747	U.S. of America, Corps of Engineers (Army)	4/19/63- 4/18/2028	Mt. Kaala, Moku- leia, Waialua	6-7-03 8-4-02	1.800	U - Unclass.	Full Term
D)S-3748	U.S. of America, Federal Aviation Agency	4/19/63- 4/18/2028	Mokuleia For. Res.	8-5-06:03	53.630	C - Unclass.	1.00 Full Term
D) S-3808	City & County of Honolulu	6/17/64- 6/16/2029	Pouhala & Ulumoku, Waikele, Ewa	9-3-01 9-3-02	45.810	C - Unclass. ROW	1.00 Full Term
S-3809	Canadian Overseas Telecommunication Corporation	4/02/64- 4/01/2029	Keawaula, Waianae	8-1-01	3.979	C - Com/Ind.	\$1,000.00
S-3811	Consolidated Amusement Co., Ltd.	4/02/64- 4/01/2029	Kalauao, Ewa	9-8-13:15	.014	U - Unclass. ROW	125.00

 $[\]underline{2}/$ Leases awarded directly are preceded by "D". All others are awarded by public auction.

ISLAND OF OAHU

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental	
(D) S-3845	U.S. of America (Army)	8/17/64- 8/16/2029	Kaena Point Track- ing Station	8-2-01:04, 05, 06, 10, & 21 8-1-01:01 & 10	137.980	C - Unclass.	1.00 Full Term	
(D) S-3846	U.S. of America (Army)	8/17/64- 8/16/2029	Kawailoa Train- ing Area	7-2-01:06	4,390.000	C - Unclass.	1.00 Full Term	
(D) S-3848	U.S. of America (Army)	8/17/6 4- 8/16/2029	Makua Training area, Parcels A & B		1,515.121	C - Unclass.	1.00 Full Term	
(D) S-3850	U.S. of America (Army)	8/17/64- 8/16/2029	Kahuku Training Area	5-8-02:02 5-9-06:26	1,149.720	C - Unclass.	1.00 Full Term	
(D) S-3864	University of Hawaii	7/01/65- 6/30/2030	Kaakaukukui, Honolulu	2-1-60:1	5.450	U - Unclass.	1.00	
(D) S-3896	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead easement over por. E.O. 1346, Kapalama Honolulu	1-5-42	.115	U - Unclass. ROW	75.00	
(D) S-3897	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	HHL, Nanakuli	8-9-07	2.164	U - Unclass. ROW	\$ 84.00	
(D) S-3898	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65 - 3/10/2030	Makiki For. Ridge Lots, Honolulu	2-5-23:08, 21, 25 & 35	.079	C - Unclass. ROW	50.00	
S-3899	First Hawaiian Bank	3/11/65 - 3/10/2030	Auwaiolimu Lots, Honolulu	2-2-06:25	.299	U - Unclass. ROW	600.00	
(D) S-3900	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Kuwili, Kapalama- Kai, Honolulu	1-5-14	.118	U - Unclass. ROW	73.00	
(D) S-3901	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Kapalama, Honolulu	1-6-02	.006	U - Unclass. ROW	5.00	
S-3902	Oahu Sugar Co., Ltd.	3/11/65- 3/10/2005	Waipahu, Waikele	9-3-02 9-4-11 9-4-13 9-4-14	.262	C - Unclass. ROW	70.40	
(D) S-3903	Hawaiian Telephone Co.	3/11/65- 3/10/2030	Diamond Head Tunnel, Kapahulu, Honolulu	3-1-42	.959	U - Unclass. ROW	1.00	
(D) S-3904	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65 - 3/10/2030	Kalihi-Waena School, Honolulu	1-3-08	.418	U - Unclass. ROW	205.00	
(D) S-3905	Hawaiian Electric Co., Ltd.	3/11/65- 3/10/2030	Laelae, Kalihi Valley, Honolulu	1-4-22	.365	U - Unclass. ROW	\$ 50.00	
(D) S-3906	Hawaiian Electric Co., Ltd.	3/11/65 - 3/10/2030	Kapalama Bascule Bridge, Mokauea, Kalihi, Honolulu	1-5-41	.481	U - Unclass. ROW	200.00	
S-3915	Assoc. of Apt. Owners of Sea View	6/21/65 - 5/20/2030	Kewalo, Honolulu	2-2-04	.043	U - Unclass. ROW	78.00	
(D) S-3951	Aloha Council, Boy Scouts of America	3/11/66- 3/10/2021	Parcels A & B, Pupukea, Koolau- loa	5-9-05 5-9-06	64.800	C - Rec.	150.00	
S-3978	Ralph Ajifu & Richard Azama	6/27/66- 6/26/2031	Kaluapuhi-Waikalua Hmstds., Kaneohe	4-5-32:02	.167	U - Unclass. ROW	30.00	
S-3980	Esther K. Arinaga	6/27/66 - 6/26/2031	Makiki Ditch	2-4-29	.021	U - Unclass. ROW	36.00	
S-3981	Roy H. & Jame S. Aoki	6/27/66 - 6/26/2031	Por. Pauoa Valley	2-2-16	.021	U - Unclass. ROW	1.00	
S-3983	Leki, Inc.	6/27/66- 6/26/2021	Por. Old Waialee Boys' Home, Koolauloa	5-8-01:51	12.854	U - Com/Ind.	6,324.00	
S-3996	Y. Hata & Co., Ltd.	8/05/67- 8/04/2022	Food Distribution Center, 1st Increme Kaakaukukui, Honolu		4.146	U - Com/Ind.	48,750.00	

ISLAND OF CAHU

Fiscal Year 1985-86

S-4027 S (D) S-4094 C (D) S-4100 F (D) S-4104 E S-4110 F S-4113 F S-4114 J	Aloha Council, Boy Scouts of America Communications Satellite Corp. City & County of Honolulu Army & Air Force Exchange Service Hawaiian Electric Co., Inc. Hawaii Kai Community Services Co.	6/10/66- 6/09/96 12/28/66- 12/27/2031 4/24/67- 4/23/2032 11/01/67- 10/31/2032 4/15/66- 5/28/2028 9/15/67- 9/14/2032 10/10/67- 10/09/2007	Reservoir Lot, Kaimuki, Honolulu Mt. Kaala, Por. Mokuleia For. Res., Waialua Kapahulu, Waikiki, Honolulu Kaakaukukui, Honolulu Kapahulu, Honolulu Maunalua	2-1-58:06	.657 .106 .138 2.500	U - Rec. C - Com/Ind. U - Unclass. U - Unclass. U - Unclass.	\$ 150.00 330.00 1.00 Full Term 1.00 Full Term
(D) S-4094 C F (D) S-4100 F (D) S-4104 F S-4110 F S-4113 F S-4114 J	City & County of Honolulu Army & Air Force Exchange Service Hawaiian Electric Co., Inc. Hawaii Kai Community Services Co. Pat & Valerie Moeller	12/27/2031 4/24/67- 4/23/2032 11/01/67- 10/31/2032 4/15/66- 5/28/2028 9/15/67- 9/14/2032 10/10/67-	Mokuleia For. Res., Waialua Kapahulu, Waikiki, Honolulu Kaakaukukui, Honolulu Kapahulu, Honolulu	3-1-42 2-1-58:06	.138 2.500	U - Unclass. U - Unclass.	1.00 Full Term 1.00 Full Term
(D) S-4100 F (D) S-4104 F (D) S-4104 F S-4110 F S-4113 F S-4114 J	Army & Air Force Exchange Service Hawaiian Electric Co., Inc. Hawaii Kai Community Services Co. Pat & Valerie Moeller	4/23/2032 11/01/67- 10/31/2032 4/15/66- 5/28/2028 9/15/67- 9/14/2032 10/10/67-	Honolulu Kaakaukukui, Honolulu Kapahulu, Honolulu	2-1-58:06	2.500	U - Unclass.	Full Term 1.00 Full Term
(D) S-4104 E S-4110 E S-4113 E S-4114 J	Exchange Service Hawaiian Electric Co., Inc. Hawaii Kai Community Services Co. Pat & Valerie Moeller	10/31/2032 4/15/66- 5/28/2028 9/15/67- 9/14/2032 10/10/67-	Honolulu Kapahulu, Honolulu		100		Full Term
S-4110 F S S-4113 F S-4114 J	Co., Inc. Hawaii Kai Community Services Co. Pat & Valerie Moeller	5/28/2028 9/15/67- 9/14/2032 10/10/67-	V ₂ ·	3-1-42	.154	U - Unclass.	
S-4113 F S-4114 J	Services Co. Pat & Valerie Moeller	9/14/2032 10/10/67-	Maunalua			ROW	10.00
S-4114 J				3-9-15	.650	U - Unclass. ROW	255.00
	Jack Altman		Moanalua	1-1-64:08	.676	U - Com/Ind.	10,900.00
S-4115		10/10/67- 10/09/2007	Moanalua	1-1-06:09	.909	U - Com/Ind.	18,800.00
	G. W. Murphy Construction Co., Inc.	10/10/67- 10/09/2007	Moanalua	1-1-64:10	.946	U - Com/Ind.	12,200.00
	Hawaii Industrial Partners #1	10/10/67- 10/09/2007	Moanalua	1-1-64:11	1.010	U - Com/Ind.	15,600.00
S-4117 S	Shafter Land Corp.	10/10/67- 10/09/2007	Moanalua	1-1-64:12	1.010	U - Com/Ind.	\$15,300.00
	Economics Laboratory, Inc.	10/10/67- 10/09/2007	Moanalua	1-1-64:13	1.010	U - Com/Ind.	16,400.00
S-4119 W	N. E. Fallon	10/10/67- 10/09/2007	Moanalua	1-1-64:14	1.094	U - Com/Ind.	18,600.00
	Electrical Distri- outors, Ltd.	10/10/67- 10/09/2007	Moanalua	1-1-64:15	.918	U - Com/Ind.	15,500.00
	nmett Paul Simpson	10/10/67- 10/09/2007	Moanalua	1-1-64:16	.918	U - Com/Ind.	15,600.00
	Equipment Service	10/10/67- 10/09/2007	Moanalua	1-1-64:17	.507	U - Com/Ind.	7,500.00
S-4123 D	ouglas K. Takata	10/10/67- 10/09/2007	Moanalua	1-1-64:18	.566	U - Com/Ind.	9,600.00
S-4124 S	en Plex Corp.	10/10/67- 10/09/2007	Moanalua	1-1-64:19	.574	U - Com/Ind.	9,100.00
S-4125 O	ahu Development Corp.	10/10/67- 10/09/2007	Moanalua	1-1-64:20	.574	U - Com/Ind.	9,600.00
S-4126 I	kazaki, et al.	10/10/67- 10/09/2007	Moanalua	1-1-64:21	.574	U - Com/Ind.	17,000.00
	ropical Isle Com- mercial Development	10/10/67- 10/09/2007	Moanalua	1-1-64:22	.574	U - Com/Ind.	\$ 17,000.00
F	J.S. of America, Mederal Aviation	5/31/67- 5/30/2032	Fort Ruger	3-1-42:42	.099	U - Unclass.	Gratis
	Maianae Valley	10/19/67- 10/18/87	Waianae	8-5-06	1,272.000	A - Pasture	3,100.00
S-4216 P	romana, Inc.	12/05/68- 12/04/2033	Kapalama, Honolulu	1-5-34:por. 04	.112	U - Unclass. ROW	915.00
S-4217 E	rnest W. Albrecht	12/05/68- 12/04/2033	Puea, Waianae	8-5-05:por. 09	.681	A - Unclass. ROW	21.00
	aipahu Soto Zen emple Taiyoji	12/05/68- 12/04/2033	Cemetery Lot, Pouhala, Waikele, Bwa	9-4-27:124	.229	U - Unclass. Elee.	12.00
(D) S-4220 U	niversity of Hawaii	1/29/69- 1/28/2034	Kaimuki Tract 49, Kapahulu	3-2-31	8.053	U - Unclass.	Gratis

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
(D) S-4223	Hawaiian Telephone Co.	3/01/66- 2/28/2031	Mt. Kaala, Mokuleia, Waialua	6-7-03:24	.211	C - Unclass.	966.00
S-4266	Mokuleia Homesteads	9/04/69- 9/03/94	Kuaokala & Kealia, Waialua	6-8-02:07 6-9-03:02	1,884.695	A - Pasture	2,350.00
S-4267	John Kalawaianui Nakoa	9/04/69- 9/03/2034	Palolo Valley, Por. Anuenue Elem. School	3-4-04	.031	U - Unclass. ROW	\$ 31.17
S-4290	Albert C. Kobayashi, Inc.	3/12/70- 3/11/2010	Lot 1, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-64	.232	U - Com/Ind.	7,200.00
S-4291	Bert A. Kobayashi	3/12/70- 3/11/2010	Lot 2, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-64	.233	U - Com/Ind.	7,500.00
S-4292	Home Communications Services Corp.	3/12/70- 3/11/2010	Lot 3, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-64	.527	U - Com/Ind.	16,700.00
S-4293	Rite-Way Co., Ltd. & Quality Pacific, Ltd.	3/12/70- 3/11/2010	Lot 4, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-64	.492	U - Com/Ind.	15,900.00
S-4294	Hawaii Business Associates, Inc.	3/12/70- 3/11/2010	Lot 5, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-64	.477	U - Com/Ind.	16,200.00*
S-4304	Thomas D. & Karen C. Perkins	5/19/70- 5/18/2035	Por. Kalawahine, Honolulu	2-5-19:por. 05	.033	U - Unclass. ROW	30.00
S-4305	Francis Y. Yoshida	5/19/70- 5/18/2035	Waimanalo, Koolaupoko	4-1-10:74	.049	A - Unclass. ROW	3.00
(D) S-4329	Waiahole Irrigation Co., Ltd.	1/01/71- 12/31/2000	Kahana, Koolaupoko	4-8-13:por. 01; 5-2-01:	1,534.500	C - Watershed	\$ 32,600.00
(D) S-4337	Hawaii State Chapter of the American Red Cross	5/06/71- 5/05/2036	Kapahulu, Waikiki	3-1-42:29	1,000	U - Unclass. (Elee)	Full Term
S-4341	City & County of Honolulu	7/01/74- 6/30/2039	Por. of Gov't land of Sand Island	1-5-41:15	50.000	U - Unclass.	Gratis
(D) 4342	Hawaii Housing Authority	12/22/71- 12/21/2046	Parcel A-1 Por. Gov't Crown Land	4-1-09:267	3.525	U - Res.	1.00 Full Term
(D) S-4352	Hawaii Assoc. of Retarded Children	5/12/72 - 5/11/2037	Por. LP 8165, Part B, Por. LCA 8559-B, Apana 32, Por. land	7	2.157	U - Unclass. (Elee)	120.00
			conveyed by Wm. Lunalilo & por. Diamond Head Res.				
(D) S-4356	Daughters of Hawaii	8/25/72- 8/24/2037	Queen Emma Hse. Residence, Nuuanu Valley, Hon.	2-2-34:27 & por. 28	2.160	U - Unclass. Elee.	150.00
S-4367	Vista Delmar	11/06/72- 11/05/2037	Moanalua, Honolulu	1-1-63:11	.141	U - Unclass. ROW	75.38
(D) S-4369	The Research Corp. of the University of Hawaii	11/01/72- 10/31/2037	Imalualei, Waianae	8-6-01	14.352	U - Unclass.	1.00 Full Term
(D) S-4384	U.S. Postal Service	6/29/73 - 6/28/2029	Honolulu	2-4-12	2.591	U - Com/Ind.	\$ 29,400.00
(D) S-4387	Lester McCoy Boys' Club dba Boys' Club of Honolulu	9/01/73- 8/31/2023	Por. Washington Inter. School, Pawaa, Honolulu	2-3-26:01	.565	U - Unclass. Elee.	Gratis
(D) S-4402	Hawaiian Telephone Co.	4/04/72- 4/03/2037	Nanakuli, Waianae	8-9-08:04	.898	C - Unclass.	250.00
(D) S-4403	Hawaii Housing Authority	9/20/74- 9/19/94	Kuwili, Honolulu	1-5-071	1.452	U - Unclass.	Gratis
S-4405	Produce Center Development, Ltd.	7/19/74- 7/18/2029	Kaakaukukui (Food Distribution Ctr) Honolulu	2-1-60:09	9.522	U - Com/Ind.	168,000.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
(D) S-4407	Pierco, Inc.	9/26/7 4 – 10/20/2027	Waimanalo, Koolaupoko	4-1-14:14	1.729	C - Com/Ind.	3,600.00
(D) S-4408	U.S. of America (Coast Guard)	10/30/74 - 10/29/2039	Kaakaukukui, Honolulu	2-1-57	.031	U - Unclass.	Gratis
(D) S-4411	Honolulu Community Theatre	8/18/74- 8/17/2024	Kapahulu, Honolulu	3-2-20:01	2.735	U - Com/Ind.	1,800.00
(D) S-4435	University of Hawaii	7/01/75- 6/30/2040	Diamond Head Res. Kapahulu, Oahu	3-1-42:09	51.628	U - Unclass.	Gratis
(D) S-4482	Waianae Hawaiian Heritage Cultural Center, Inc.	8/23/74- 8/22/77	Por. of Gov't (Crown) land of Waianae, Waianae-Ka	8-5-18:Por. 01	1.154	U - Unclass. Elee.	\$ 1.00
S-4485	Inscon Development Company	10/30/75 - 10/29/2030	Hanakoe, Kawela, Koolauloa	5-7-01	.214	U - Unclass. ROW	38.39
(D) S-4487	Hawaii Wing Civil Air Patrol	1/01/74- 12/31/2000	Puu-O-Hulu Tunnel Site & Roadway Easement, Lualualei Waianae	8-7-06:08 8-7-06:29	5.981	C - Unclass.	Gratis
(D) S-4488	University of Hawaii	2/23/73- 2/22/2038	Por. Kapalama Mil. Res. Mokauea, Kalib		16.069	U - Unclass.	Gratis
(D) S-4513	Variety Club School & Special Education Center	3/15/76- 3/14/2040	Fort Ruger, Hon.	3-1-42:34	4.291	U - Unclass. Elee.	120.00
S-4543	Kenneth Pratt	11/24/75- 11/23/2040	Waialua	6-1-08:03	.012	U - Unclass.	430.00
(D) S-4555	Dept. of Hawaiian Home Lands	10/01/76- 3/31/91	Nanakuli	8-9-08:Por. 03	401.920	A - Pasture	1,190.00
S-4558	Harry M.S. Fong	4/11/77- 4/10/2042	Hauula	5-4-07:63	.017	U - Unclass. ROW	450.00 Full Term
(D) S-4560	Easter Seal Society for Crippled Children & Adults of Oahu, Inc.	7/17/77 - 7/16/2042	Kewalo, Honolulu	2-1-39:19	.612	U - Unclass. Elee.	\$ 1.00
(D) S-4561	Waianae Kai Development, Inc.	7/1/77- 6/30/97	Waianae	8-5-05	97.764	U - Unclass. Elee.	1.00
S-4578	Basin Project, Inc.	12/23/77 - 12/22/2042	Por. Filled Land, Kaakaukukui (Kewalo Basin)	2-1-60:13	.621	U - Com/Ind.	40,500.00
D) S-4579	University of Hawaii (Tropical Agriculture)	9/01/77- 8/31/97	Waimanalo	4-1-26:1, 2 & 21	127.639	A - Int. Ag.	Gratis
D) S-4580	Old Vineyard St. Residents' Assoc.	6/15/78- 6/14/2033	Old Vineyard St. Housing Project, Halehala, Honolulu	2-1-18:Por. 11	.679	U - Res.	1.00
D) S-4582	Mokauea Fishermen Association	6/01/78- 5/31/2043	Kaliawa & Mokauea, Kalihi	1-5-41	13.750	U - Unclass. Elee.	150.00
D) S-4588	Hawaiian Telephone Co.	6/06/73 - 6/05/2038	Puu Ohia Radio Sta. Sites A&B, & Parcels C, D, E, & F, Situated at Kalawahine & Opu, Honolulu, Oahu	2-5-19	4.330	C- Unclass. ROW	3,711.00
S-4589	Basin Project, Inc.	6/30/78– 12/29/2042	Por. of Filled Land of Kaakaukukui (Kewalo Basin) plus easement for air rights over portions of adjoinin coral reef area abov Kewalo Basin Channel	ng ne	.233 (Parcel A) .144 (Easement)	U - Com/Ind.	\$ 12,000.00
D) S-4592	University of Hawaii Community College Sys.	12/1/77- 11/30/2042	Kalihi-Palama Education Ctr. West corner of Intersection of King St. & Austin Lan	1-5-05:14 ne	.282	U - Unclass.	Gratis

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
D) S-4603	First Samoan Assembly of God	5/1/79- 4/30/2034	Horizontal Limits of Space Parcel A, por. of FAP No. I-H1-1(93), Honolulu	1-6-08	.972	U - Unclass. Elee.	6,372.00
D) S-4605	United States of America	1/1/79- 12/31/88	Water pipeline Easement, Waianae- Kai, Oahu	8-5-01:4 & 45		U - Unclass. ROW	Gratis
S-4606	Hawaiian Independent Refinery, Inc.	11/03/78- 11/02/20 4 3	Honouliuli, Ewa	9-1-26 & 9-1-31 Parcels 1 & 2	191.148	U - Unclass. ROW	252,000.00 Full Term (paid)
D) S-4611	City & County of Honolulu, Building	10/01/79 9/30/2029	Waihee, Koolaupoko	4-7-02:17	.606	U - Unclass.	120.00
S-4612	Del Monte Corp.	1/1/80 12/31/94	Waikele, Ewa	9-4-12:1, 2 & 3	578.265	A - Int. Ag.	\$39,500.00
S-4631	Sudbrink Broadcasting Co. of HI, K(O) KUA Radio One Corp., Heftel Broadcasting Corp., Communications Hawaii, Inc.	5/5/80 5/4/2035	Kaakaukukui	2-1-58:48	.082	U - Unclass.	30,000.00
S-4643	Gem of Hawaii, Inc.	6/1/80 5/31/2035	Kuwili	1-5-20:6	2.750	U - Com/Ind.	140,000.00
S-4644	Cormax Corp.	5/14/80- 5/13/2035	Kalauao, Ewa	9-9-10:33	3.697	U - Com/Ind.	91,000.00
o) S-4658	City & County of Honolulu	7/1/80- 6/30/2045	Kaakaukukui, Honolulu	2-1-15:23	.698	U - Com/Ind. (Sewage Pumping Station)	per annum
S-4692	Chevron USA, Inc.	12/18/80- 11/02/2043	Honouliuli, Ewa	9-1-31:por. 3, por. 4	92.247	C - Unclass.	Paid Full Term
s-4693	City & County of Honolulu	7/1/80- 6/30/2045	Lualualei, Waianae	8-7-07:por. 1	1.399	- Unclass. (Sewage Pump & ROW)	Gratis Sta.
) S-4776	City & County of Honolulu		Paalaa Uka, Waialua, Cahu	6-4-03:02	5.000	A - Int. Ag. and Housing	Gratis
) S-4783	Honolulu Community Action Program	12/28/81 12/27/82	For Waianae-Kai Military Reservatio	8-5-02:15 n	4.000	U - Unclass.	Gratis
) S-4825	Waikiki Community Center		Waikiki, Cahu	2-6-25:02	1.477	U - Unclass. Elee.	120.00
s-4826	DSSH & Goodwill Industries of Honolulu, Incorporated	9/1/81- 8/31/2031	Lot 3, Shafter Flats Ind. Dev., Unit II	1-1-64:27	1.578	U - Unclass. Elee.	Full Term
) S-4827	Waimalu Grace Brethen Church	10/29/82- 10/31/2037	Waimalu, Ewa	9-8-26	1.207	U - Unclass. Elee.	3,000.00
S-4877	Toshio Sugita & Kenneth Ibara	7/18/83 - 7/17/2018	Portion of Crown Land, Waianae	8-5-05:09 & 11	35.500	A - Int. Ag.	7,000.00
) S-4882	Pearl City Highlands Holiness Church	8/15/84- 8/14/2039	Manana-Nui, Bwa	9-7-02:31	.813	U - Unclass. Elee.	3,000.00
S-4883	Glenn Masuo & Harriet Mieko Masunaga	6/30/76 - 6/29/97	Makiki, Honolulu	2-4-32:por 01	.096	- Unclass. Easement	236.00
s-4884	George & Louise Ai	12/1/83- 11/30/2048	Lot 1, Maunalaha Hmstds., Opu, Makiki, Honolulu	2-5-19:por.	.930	C - Res.	120.00
o) S-4885	Melvyn K. & Lynn Aila	12/1/83- 11/30/2048	Iot 2, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-20:por	.780	C - Res.	\$ 120.00
D) S-4886	Katherine Akana, et al.	12/1/86- 11/30/2048	Lot 3, Maumalaha Homesites, Opu, Makiki, Honolulu	2-5-19&20:por.	.490	C - Res.	120.00

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Classification Annual Area Tax Map Term of and Use Rental Lease (Acres) Key Location Lease Tecco No. 120.00 C - Res. .590 Lot 4, Maunalaha 2-5-19&20:por. 12/1/83-Winona B. Maka (D) S-4887 Homesites, Opu, Makiki, Honolulu 11/30/2048 120,00 C - Res. Lot 5, Maunalaha Homesites, Opu, Makiki, Honolulu 2-5-19&20:por. 640 12/1/83-(D) S-4888 Herman L. K. Brandt 11/30/2048 120.00 C - Res. .490 12/1/83-Lot 6, Maunalaha 2-5-19:por. Hennessey J. & Mary Brown (D) S-4889 11/30/2048 Homesites, Opu, Makiki, Honolulu 120.00 C - Res. .440 2-5-19:por. Lot 7, Maunalaha 12/1/83-Gulstan Crawford (D) S-4890 11/30/2048 Homesites, Opu, Makiki, Honolulu C - Res. 120,00 .860 2-5-19:por. Lot 8, Maunalaha 12/1/83-Alfred K. Fountain (D) S-4891 11/30/2048 Homesites, Opu, Makiki, Honolulu \$120,00 .480 C - Res. Lot 9, Maunalaha Homesites, Opu, Makiki, Honolulu 2-5-19&20:por. 12/1/83-Thomas H. & Joan A. (D) S-4892 11/30/2048 Kaajai 120.00 C - Res. .290 2-5-19:por. 12/1/83-Lot 10, Maunalaha William W.A. & Diane H. (D) S-4893 Homesites, Opu, Makiki, Honolulu 11/30/2048 Kaajai 120.00 .750 C - Res. 2-5-19:por. Lot 11, Maunalaha 12/1/83-Julia Minerva Kaawa (D) S-4894 Homesites, Opu, 11/30/2048 Makiki, Honolulu 120,00 C - Res. Lot 12, Maunalaha 2-5-19:por. 1.040 12/1/83-(D) S-4895 Arthur K. Kaleikini 11/30/2048 Homesites, Opu, Makiki, Honolulu 120.00 C - Res. .820 2-5-19:por. Lot 13, Maunalaha 12/1/83-Joseph K. Kaleikini (D) S-4896 Homesites, Opu, 11/30/2048 Makiki, Honolulu 120,00 C - Res. .640 2-5-19:por. Lot 14, Maunalaha 12/1/83-Charlotte Maile Chira (D) S-4897 Homesites, Opu, Makiki, Honolulu 11/30/2048 120.00 C - Res. .820 Lot 15, Maunalaha 2-5-19:por. 12/1/83-(D) S-4898 Emma K. Kalima Homesites, Opu, 11/30/2048 Makiki, Honolulu \$ 120.00 .350 C - Res. Lot 16, Maunalaha 2-5-19:por. 12/1/83-David Keau Moses (D) S-4899 Homesites, Opu, 11/30/2048 Makiki, Honolulu 120,00 C - Res. 1,250 2-5-19:por. Lot 17, Maunalaha 12/1/83-May K. Kealoha (D) S-4900 Homesites, Opu, Makiki, Honolulu 11/30/2048 120.00 C - Res. 1,300 Lot 18, Maunalaha 2-5-19:por. 12/1/83-Leinaala M. Lopes (D) S-4901 Homesites, Opu, Makiki, Honolulu 11/30/2048 120.00 C - Res. .520 2-5-20:por. Lot 19, Maunalaha 12/1/83-Bonnie-Lee H. Shea (D) S-4902 Homesites, Opu, Makiki, Honolulu 11/30/2048 120.00 C - Res. 1.140 2-5-19:por. Lot 20, Maunalaha Nancy P. Makua & 12/1/83-(D) S-4903 11/30/2048 Homesites, Opu, Thomas Boteilho Makiki, Honolulu 120.00 C - Res. 1.300 2-5-19:por. Lot 21 & 21-A, 12/1/83-James K. Moses, Jr. (D) S-4904 Maunalaha Homesites 11/30/2048 Opu, Makiki, Honolulu 120.00 .640 C - Res. Lot 22, Maunalaha 2-5-19:por. 12/1/83-Charlotte K. Needham (D) S-4905 Homesites, Opu, 11/30/2048 Makiki, Honolulu \$ 120.00 C - Res. .320 2-5-19&20:por. Lot 23, Maunalaha 12/1/83-Helen Simeona Oku & (D) S-4906 Homesites, Opu, 11/30/2048 Miulana Oku Makiki, Honolulu 120.00 C - Res. .280 Lot 24, Maunalaha 2-5-19:por. 12/1/83-Robertajean Keinath (D) S-4907 Homesites, Opu, Makiki, Honolulu 11/30/2048

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
(D) S-4908	Mary K. H. Lopez Palomo	12/1/83- 11/30/2048	Lot 25, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19&20:por.	.280	C - Res.	120.00
(D) S-4909	James M. Perry	12/1/83- 11/30/2048	Lot 26, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19:por.	.360	C - Res.	120.00
(D) S-4910	George H. & Alice Santana	12/1/83- 11/30/2048	Iot 27, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19:por.	.240	C - Res.	120.00
(D) S-4911	William K. & Mary K. Spencer	12/1/83- 11/30/2048	Lot 28, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19&20:por.	.520	C - Res.	120.00
(D) S-4912	Lydia K. Ulii & J. W. Nahinu	12/1/83- 11/30/2048	Lot 29, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19:por.	.700	C - Res.	120.00
(D) S-4913	Armold P. Spencer & Corrinne Spencer	12/1/83- 11/30/2048	Lot 30, Maunalaha Homesites, Opu, Makiki, Honolulu	2-5-19:por.	.400	C - Res.	\$ 120.00
S-4914	Kahaluu Pond, Inc.	3/1/84- 2/28/2014	Kahaluu, Koolaupoko	4-6-11:por. of Kaneohe Bay	.718	C - Unclass. Easement	2,500.00 Gratis
(D) S-4916	U.S.AFederal Aviation Administration	5/21/84- 9/30/93	Moanalua, Honolulu (Pacific War Memorial Site)	1-1-03:por. 04	.100	U - Unclass.	Gratis
(D) S-4917	City & County of Honolulu, Dept. of Transportation Services	1/28/83 - 1/27/2038	Makiki, Honolulu	2-4-22:17, 25, 28 & 33	1.126	U - Rec.	1.00
S-4921	Hawaiian Telephone Co.	6/14/85– 10/31/2039	Ewa	9-9-68:60	.001	U - Unclass.	10.00 Full Term
(D) S-4948	Pearl City Youth Complex Association	2/1/85- 1/31/2020	Manana & Waimano, Bwa	9-7-19:35	11.209	U - Unclass. Elee.	120.00
(D) S-5006	University of Hawaii	6/01/67- 5/31/2032	Mt. Kaala, Mokuleia For. Reserve	6-7-03	.110	U - Unclass.	Gratis
(D) S-5013	First Church of Christ, Scientist	5/25/67- 5/24/2032	Honolulu	2-4-08	.049	U - Unclass. Elee.	110.00
S-5016	U.S.A., Coast Guard	6/30/67- 6/29/2030	Haleiwa	6-2-03:40	.007	U - Unclass. Range Light Easement	Gratis
S-5104	Teleglobe Canada	5/9/86- 4/1/2029	Keawaula, Waianae	8-1-01	33.079	C - Unclass. Easement	\$1,500.00
S-5105	U.S.A., Corps of Engineers	1/1/86- 12/31/2005	Waikele, Ewa	9-4-12:03&11	6.437	A - Unclass. Easement	120.00
S-5106	Stadium Bowl-O-Drome	1/1/86- 12/31/2005	Kapaakea, Waikiki, Honolulu, Parts 1 & 2	2-7-08:18	.918	U - Comm/Ind.	173,000.00
S-5107	Andrew & Susan Schwartz	6/28/85 - 6/27/2040	Poloke, Makiki	2-5-15:13	.006	U - Unclass. Easement	150.00
S-5108	City & County of Honolulu (Building Dept.)	5/9/86- 10/31/2040	Kuwili, Iwilei	1-5-09	.345	U - Unclass. Community Facility for Urban Homeles	132.00
AIMANALO AGRI	CULTURAL LEASES						
S-3753	SGVG Corp.	12/02/63- 12/01/2010	Lot 2, Waimanalo Ag Subdv. Koolaupoko	4-1-10:31	3.429	A - Int. Ag.	\$1,262.00
S-3754	Servoo Pacific, Inc.	12/02/63- 12/01/2008	Lot 3, Waimanalo Ag Subdv. Koolaupoko	4-1-10:32	4.147	A - Int. Ag.	1,996.00
S-3756	Norman and Adeline Thomas	12/02/63 - 12/01/2006	Lot 5, Waimanalo Ag Subdv. Koolaupoko	4-1-10:34	5.193	A - Int. Ag.	536,00
S-3757	Steven & Jeannie Saiki	12/02/63 - 12/01/2005	Lot 9, Waimanalo Ag Subdv, Koolaupoko	4-1-10:40	3.742	A - Int. Ag.	770.00

ISLAND OF CAHU

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-3758	Kazuto Yamada	12/02/63- 12/01/2006	Lot 10, Waimanalo Ag Subdv. Koolaup		4.094	A - Int. Ag.	700.00
S-3759	Kawahara Nursery & Landscaping Co., Ltd.	12/02/63 - 12/01/2008	Lot 11, Waimanalo Ag Subdv. Koolaup		4.486	A - Int. Ag.	375.00
S-3760	Kaname & Ethel H. Tanaka	12/02/63- 12/01/2008	Lot 12, Waimanalo Ag Subdv., Koolau		4.635	A - Int. Ag.	780.00
S-3761	Windward Plants Company, Ltd.	2/02/64- 2/01/2011	Lot 13, Waimanalo Ag Subdv., Koolau		4.014	A - Int. Ag.	950.00
S-3762	Henry Hiroshi Miyamoto & Clyde Maehiro Miyamoto	2/02/64- 1/31/2004	Lot 14, Waimanald Ag Subdv., Koolau	4-1-10:46 poko	5.137	A - Int. Ag.	1,300.00
S-3763	William K and Charlotte K. Fuller	12/02/63- 12/01/83	Lot 15, Waimanal Ag Subdv., Koola		5.256	A - Int. Ag.	\$ 2,190.00
S-3764	Servco Pacific, Inc.	12/02/63 - 12/01/2008	Lot 16, Waimanal Ag Subdv., Koola		3.228	A - Int. Ag.	1,243.00
s-3766	Rodney H. and Iris T. Fukui	12/02/63- 12/01/2000	Lot 26, Waimanal Ag Subdv., Koola		7.001	A - Int. Ag.	725.00
S-3767	Kazuto & Ayako Yamada	12/02/63- 12/01/2006	Lot 27, Waimanal Ag Subdv., Koola		7.195	A - Int. Ag.	1,170.00
S-3768	Stanley S. Kawabata	12/02/63- 12/01/2010	Lot 28, Waimanal Ag Subdv., Koola		6.836	A - Int. Ag.	1,360.00
S-3769	Mun On & Rosalind K. Chang	12/02/63- 12/01/2010	Lot 29, Waimanal Ag Subdv., Koola		5.515	A - Int. Ag.	2,000.00
S-3770	Hiroshi & Sallie Ikene	12/02/63- 12/01/2004	Lot 30, Waimanal Ag Subdv., Koola	o 4-1-27:25 jupoko	5.794	A - Int. Ag.	960.00
S-3771	Pacific Foliage, Inc.	12/02/63- 12/01/2002	Lot 31, Waimanal Ag Subdv., Koola		10.005	A - Int. Ag.	1,600.00
S-3773	Servoo Pacific, Inc.	12/02/63- 12/01/93	Lot 34, Waimanal Ag Subdv., Koola		9.565	A - Int. Ag.	\$ 1,520.00
S-3774	Katsumi Mashita	12/02/63- 12/01/2002	Lot 35, Waimanal Ag Subdv., Koola		8.541	A - Int. Ag.	1,380.00
S-3775	Rainbow Properties, Inc.	12/02/63- 12/01/2004	Lot 36, Waimanal Ag Subdv., Koola		8.860	A - Int. Ag.	1,430.00
S-3776	Howard E. & Naomi H. Chaille	12/02/63- 12/01/83	Lot 37, Waimanal Ag Subdv., Koola		8.513	A - Int. Ag.	1,900.00
S-3777	Sharon's Plants, Ltd.	12/02/63- 12/01/2011	Lot 39, Waimanal Ag Subdv., Koola	aupoko	7.883	A - Int. Ag.	1,618.00
S-3778	Sharon's Plants, Ltd.	12/02/63- 12/01/2006	Lot 40, Waimanal Ag Subdv., Koola		5.686	A - Int. Ag.	1,374.00
S-3779	Sharon's Plants, Ltd.	12/05/63 - 12/04/2006	Lot 41, Waimanal Ag Subdv., Koola		6.032	A - Int. Ag.	1,152.00
S-3780	Larry & Patrice Goebelt	12/02/63 - 12/01/2008	Lot 46, Waimanal Ag Subdv., Koola		6.705	A - Int. Ag.	1,100.00
S-3782	Peter A. & Gertrude Pak Chong	12/02/63- 12/01/2008	Lot 48, Waimanal Ag Subdv., Koola	aupoko	7.136	A - Int. Ag.	1,875.00
S-3787	Warren Q.K. & Ellen S.P. Yee	12/02/63 - 12/01/93	Lot 7, Waimanalo Ag Subdv., Koola		3.536	A - Int. Ag.	\$ 245.00
S-3792	Elizabeth Heavey & Eleanor Kaleimomi McLellan	12/05/63- 12/04/93	Lot 45, Waimanal Ag Subdv., Koola		1.100	A - Int. Ag.	380.00
S-3793	Robert L. & Anna K. Ham	12/02/63- 12/01/93	Lot 18A, Waimana Ag Subdv., Koola		6.490	A - Int. Ag.	950.00
S-3794	Abigail Kekaulike Kawananakoa	12/02/63- 12/01/93	Lot 18B, Waimana Ag Subdv., Koola		5.744	A - Pasture	966.00
S-3854	Patricia & Nancy Maloney	8/10/64- 8/09/84	Lot 47, Waimanal Ag Subdv., Koola		5.492	A - Int. Ag.	1,466.00

ISLAND OF OAHU

Fiscal Year 1985-86

Lease	THE RESERVE THE PERSON NAMED IN	Term of	Location	Tax Map	Area	Classification and Use	Annual Rental
No.	Lessee	Lease	Location	Key	(Acres)	and Use	Rental
S-3856	Fred M. & Toshiko Nakayama	8/10/64- 8/09/2002	Lot 9, Waimanalo Farm Lots, Koolaupo	4-1-24:23 oko	9.474	A - Int. Ag.	1,520.00
S-3858	Warren Q.K. & Ellen S.P. Yee	8/10/64- 8/09/2004	Lot 8, Waimanalo Ag Subdv., Koolaupx	4-1-10:39 oko	3.662	A - Int. Ag.	510.00
S-3859	Faith Kiyoko Okabe	8/10/64- 8/09/2011	Lot 56A & 56B, Waimanalo Farm Lots Koolaupoko	4-1-25:22 & 23 s,	8.923	A - Int. Ag.	1,972.00
S-3860	Yong & Helen Y. Kam	8/13/64- 8/12/84	Lot 31, Waimanalo Farm Lots, Koolaupo		6.862	A - Int. Ag.	2,810.00
S-3861	Nolan B. George	8/10/64- 8/09/2004	Lot 33, Waimanalo Ag Subdv., Koolaupo		20.056	A - Pasture	\$ 900.00
S-4007	Living Designs, Inc.	9/12/66- 9/11/2005	Lot 23 & 24, Waimanalo Ag Subdv. Koolaupoko	4-1-27:23 & 24	34.538	A - Int. Ag.	2,600.00
S-4008	Walter F.L. & Evelyn Z. Chong	9/11/66 9/11/86	Lot 38, Waimanalo Ag Subdv., Koolaupo		20.395	A - Int. Ag.	2,489.00
S-4009	Char Hung Sut Fish Farms	9/12/66- 9/11/86	Lot 28, Waimanalo Farm Lots, Koolaupo		9.454	A - Int. Ag.	800.00
S-4010	Arnold & Louise Swartz	9/12/66- 9/11/86	Lot 67, Waimanalo Farm Lots, Koolaupo	4-1-18:40 oko	7.021	A - Int. Ag.	1,030.00
S-4011	Matsuko Matsumoto	9/12/66- 9/11/96	Lot 43, Waimanalo Ag Subdv., Koolaupo	4-1-27:04 oko	1.032	A - Int. Ag.	420.00
S-4093	Victor & Harriet Towne Gega (Britain/Kittle)	3/20/67- 2/19/97	Lot 44, Waimanalo Ag Subdv., Koolaupo	4-1-27:02 oko	1.002	A - Int. Ag.	450.00
S-4095	Olomana Golf Links, Inc.	5/04/67- 5/03/2007	Waimanalo, Koolaupoko	4-1-13:10	129.859	U - Com/Ind.	16,500.00
S-4101	Foremost Dairies- Hawaii, Ltd.	7/20/67- 7/19/97	Waimanalo Ag Subdv., Koolaupoko	4-1-08:80 4-1-26:04	195.810	A - Int. Ag.	14,100.00
S-4133	Joseph N.A. Ryan, Jr. & Tamara Ryan	10/26/67- 10/25/2020	Lot 49, Waimanalo Ag Subdv., Koolaupo	4-1-26:15 bko	8.450	A - Int. Aq.	\$3,072.00
S-4296	Ernest F. and Donna Carlbom	3/12/70- 3/11/2010	Lot 17, Waimanalo Ag Subdv., Koolaupo	4-1-10:07 oko	11.001	A - Int. Ag.	2,100.00
S-4297	Mahalo Farms	3/12/70- 3/11/2007	Lot 19, Waimanalo Ag Subdv., Koolaupo	4-1-10:04 bko	14.054	A - Int. Ag.	4,400.00
S-4298	Donald R. & Virginia M. Hillis	3/12/70- 3/11/90	Lot 20, Waimanalo Ag Subdv., Koolaupo		15.587	A - Int. Ag.	3,600.00

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SUMMARY OF GENERAL LEASES FOURTH LAND DISTRICT - ISLAND OF KAUAI

Fiscal Year 1985-86

1/ Use	Area (Acres)	Annual Rental	No. of Leases
Intensive agriculture use	30,729.216	\$ 612.703.00	45
Special livestock use Pasture use	10,353.296	52,243.00	31
Commercial timber use Quarry use			_ ~ ~ ~
Mining use Recreational use	41.297 245.239	1,707.00 98,400.00	6
Watershed use Res. use	107.890 65.069	311,626.00 192,203.00	112 26
Commercial and industrial use Hotel, apartment and motel use	6.068	49,800.00	<u>2</u>
Resort use Unclass. uses	660.860	98,596.10	48
Totals	42,208.935	\$1,417,278.10	273

 $\underline{1}/$ The following Land Use Commission classification is used throughout: A - Agriculture C - Conservation R - Rural U - Urban

 $\frac{2}{2}$ Leases awarded directly are preceeded by "D". All others are awarded by public auction.

GENERAL LEASES

ISLAND OF KAUAI

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-3649	Betty M. Ching	5/11/61- 5/10/91	Lawai Hmstds., Koloa	2-5-05:04, 05 & 06	7.540	A - Pasture	\$ 1,265.00
S-3650	August Aguiar	7/09/61- 7/08/91	Kapaa Rice & Kula Lots, Kapaa, Puna	4-5-05:06	1.871	A - Int. Ag.	487.00
S-3666	William E & Evelyn P.O. Fernandes	10/16/61- 10/15/91	Hanalei Hmstds., Puna	5-4-02:34 & 38	13.640	A - Int. Ag.	435.00
S-3674	Lehua Fernandes-Salling and William Kimo Fernandez	12/18/61- 12/17/2001	Wailua Rice & Kula Lots, Kawaihau Puna	4-2-03:05	4.406	U - Com/Ind.	1,000.00
S-3680	Lihue Plantation Co., Ltd.	12/18/61- 12/17/86	Wailua Rice & Kula Lots, Wailua, Puna	3-9-02:09	5.430	A - Int. Ag.	220.00
S-3694	Shoichi Nagamine	1/27/62- 1/26/92	Hanapepe Valley, Waimea, Kona	1-9-03:06	7.826	A - Int. Ag.	190.00
o) S-3711	County of Kauai	11/15/62- 11/14/2027	Hanapepe, Waimea, Kona	1-9-02:44, 46 1-9-03:23 1-9-04; 1-9-11; 1-9-12:47, 48, 49 & 50	8.779	A - Unclass.	Gratis
o) s-3713	County of Kauai	11/15/62- 11/14/2027	Abandoned WW II Underground Tunnel, Punopae, Waimea, Kekaha & Hanapepe Valley	1-2-02 & Por. 01 1-8-07 & Por. 03		A - Unclass. County	Gratis
S-3733	Konko Kyo Church	2/25/63- 2/24/93	Hanapepe Rice & Kula Lots, Hanapepe, Kona	1-9-12:13	1.840	A - Unclass. Elee.	\$ 360.00
o) S-3795	Hawaiian Telephone	11/26/63- 11/25/2013	Hanapepe & Puu Ka Pele, Waimea, Kona	1-9-03:Por. 30 1-4-01:02	1.042	A - Unclass. ROW	172.00

ISLAND OF KAUAI

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-3800	Noboru Munechika & Michie N. Munechika	1/25/64- 1/24/2004	Hanapepe Rice & Kula Lots, Waimea Kona	1-9-02:06 & 07	2.930	A - Int. Ag.	355.00
S-3815	Joseph S. Brun & Joseph Rita	6/12/64- 6/11/84	Section E, Hanapepe, Waimea, Kona	1-8-06:03	287.130	A - Pasture	810.00
S-3827	East Kauai Water Co., Ltd.	5/11/64- 5/10/94	Drainage Basins of N. Wailua, Kapaa, Anahola & Hanalei	4-6-03:34 & 35 4-6-06:07, 20, 23, 31 & 37	113.989	C - Watershed License	\$ 90,000.00
			Rivers, Kapaa, Halelea	4-6-07:09, 11, 12 & 22			
				4-6-08:30 & 56 4-6-09:05, 06, 13, 17 & 24			
				4-6-10:04 & 05 4-6-14:13 & 14 4-6-15:23 4-6-20:14			
			7	4-6-25:38 4-6-26:01 4-6-27:25 & 26			
				4-6-28:15 & 16 4-6-32: 22, 23, 32 & 35	30,		
S-3828	Lihue Plantation Co., Ltd.	5/11/64- 5/10/94	Por. Moloaa For. Res. Papaa, Moloaa, Kawaihau	4-9-01:por 1	125.000	C - Watershed License	2,400.00
S-3831	Kauai Resort Hotel	5/18/64- 5/17/2029	Wailua Resort Site, Lihue	3-9-06:16	2.497	U - Com/Ind.	38,084.00
S-3832	Ichiji & Masako Matsumura	5/18/64- 5/17/2019	Por. Kapaa, Kawaihau	4-5-11:46	.593	U - Com/Ind.	\$ 1,890.00
S-3840	Kauai Resort Hotel, Inc.	7/06/64- 7/05/2029	Wailua resort Site, Wailua	3-9-06:20	6.093	U - Com/Ind.	74,416.00
S-3842	Bank of Hawaii	7/06/64- 7/05/94	Hanapepe Town Lots, Waimea	1-9-05:49	.452	U - Com/Ind.	7,800.00
(D) S-3852	U.S. Of America (Navy)	8/20/64- 8/19/2029	Bonham Air Force Base, Kona	1-2-02:25, 26, 27 & 28	189.557	U - Unclass. Fed.	1.00 Full Term
(D) S-3863	Kauai County, Y.W.C.A.	4/01/65 - 3/31/2020	Por. Kokee Camp Sites, Waimea	1-4-04:33	3.607	C - Rec.	840.00
(D) S-3879	Kauai Electric Co., Ltd.	1/11/65- 1/10/2030	Hanapepe Transformer Site, Waimea	1-8-08:70	.017	U - Unclass. ROW	26.00
S-3882	East Kauai Water Co., Ltd.	1/11/65- 5/10/94	Kapaa Hmstds., Kapaa	4-6-05:08	.360	U - Res.	100.00
S-3883	Kanichi & Alicia Tanigawa	1/11/65- 1/10/93	Hanapepe Town Lots, Hanapepe	1-9-10:33	.181	U - Com/Ind.	2,400.00
(D) S-3911	Kauai Electric Co., Ltd.	4/14/65- 4/13/2030	Por. Wailua, N. Olohena, Waipouli, Lihue, Kawaihau, Puna	3-9-01 4-2-01	26.420	A - Unclass. ROW	515.00
(D) S-3917	U.S. of America	2/1/65- 1/31/2020	Kokee Pacific Range Missile Facilities, Waimea	1-4-01:por. 13	22.900	C - Unclass.	\$ 600.00
(D) S-3928	U.S. of America (Army)	9/01/65 - 8/31/2030	Kokee, Waimea	1-4-01:por. 13	8.450	C - Unclass.	Gratis
(D) S-3937	County of Kauai	11/01/65- 10/31/2030	Hanapepe, Waimea	1-9-04:21	3,151	U - Unclass.	Gratis
S-3940	McBryde Sugar Co., Ltd.	11/16/65– 11/15/2030	Por. Hanalei, Wailua & Kalaheo	2-3-01; 2-3-02; 2-3-12:01; 2-4-01; 3-9-01; 3-9-02:15; 4-2-01:02; 5-3-01:03;	74.380	A - Unclass.	925,00
				5-4-01:01			
S-3941	Rehabilitation Unlimited, Kauai	11/16/65- 11/15/2020	Wailua Coconut Grove Kawaihau, Puna	4-1-03:18	.813	U - Com/Ind.	220.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)		nual ntal
S-3945	Leroy K.A. Aguiar	12/16/65- 12/15/2000	Kapaa Hmstds., Kawaihau, Puna	4-6-05:11	4.110	A - Int. Ag.	600.00
D) S-3952	U.S. of America (Navy)	12/17/65- 12/16/2030	Waimea		248.220	C - Unclass.	Gratis
S-3956	Keith H. Williams & Leroy H. Shepard dba Alii Farms	3/19/66— 3/18/2001	Kapaa Hmstds., Kawaihau, Puna	4-6-05:02	4.410	A - Int. Ag.	\$ 650.00
S-3960	Hitoshi & Hatsue K. Miyabara	2/17/66- 2/16/86	Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-02:01 & 20	3.657	A - Int. Ag.	385.00
S-3973	Leialoha Dung	5/26/6 6- 5/25/2031	Lot 25, Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-01:Por. 11	.174	A - Unclass. ROW	6.50
S-3977	R.K.U. Enterprises, Inc.	5/26/66- 5/25/2021	Hanapepe Town Lots, Waimea, Kona	1-9-05:07	.158	U - Com/Ind.	248.00
S-3987	Helen H. Souza	8/01/68- 7/31/88	Kapaa Rice & Kula Lots, Kawaihau, Pun	4-5-15:29	.987	A - Pasture	126.00
S-3988	W. Montague Downs	7/14/66- 7/13/86	Por. Kapaa Hmstds., Kawaihau, Puna	4-6-03:22 & 23	17.700	A - Int. Ag.	536.00
S-3991	Ernest Palmeira	7/14/66- 7/13/86	Por. Kapaa Hmstds., Kawaihau, Puna	4-6-03:01	15.560	A - Pasture	380.00
S-3992	Nicholas B. and Judith Dettman	7/14/66- 7/13/2031	Por. Lawai, Koloa	2-5-02:34	.037	A - Unclass.	18.00
S-3993	Ichiji & Masako Matsumura	7/14/66 7/13/2001	Por. Kapaa Hmstds., Kawaihau, Puna	4-6-05:09	3.000	A - Int. Ag.	\$ 1,000.00
S-3995	Peter H. & Helen H. Souza	7/14/66- 7/13/86	Por. Kapaa Rice & Kula Lots, Kawaih	4-5-15:08 au	10.426	A - Int. Ag.	500.00
S-4021	Manuel J. Fernandes	11/17/66- 11/16/86	Spring Res., Kalaheo, Koloa	2-4-01:05 2-4-02:01	1.760	A - Pasture	65.00
(D) S-4022	Hawaiian Telephone Co.	11/17/66- 11/16/2031	Por. Kapaa Rice & Kula Lots, Kawaihau	4-5-15:Por. 28	.156	A - Unclass. ROW	6.00
S-4023	Tetsuro Maeda & Yoshio Hiranaka dba T & Y	11/17/66- 11/16/2021	Nawiliwili Harbor Lots, Lihue	3-2-04:11	.618	U - Com/Ind.	1,200.00
S-4092	Samuel K. Thronas	2/16/67- 2/15/2002	Parcels A & B, Wailua Game Res., N & S. Olohana Waipouli, Kapaa, Kawaihau	4-2-01:01 4-4-01:01	1,855.000	A - Pasture	2,030.00
(D) S-4128	Boy Scouts of America, Aloha Council	12/01/67- 11/30/2022	Waimea Canyon Park, Waimea (Kona	1-4-01:15	29.000	C - Rec.	\$ 470.00
S-4135	McBryde Sugar Co., Ltd.	11/29/67- 11/28/2032	Waimea (Kona)	1-9-03:02, 03 & 04	1.710	A - Unclass.	26.00
S-4200	William E. Fernandes	8/01/68- 7/31/2023	Kawaihau (Puna)	4-5-15:40	2.035	U - Com/Ind.	825.00
S-4222	Kekaha Sugar Co., Ltd.	1/01/69- 12/31/93	Waimea (inc. HHL) (Kona)	1-2-02:01	7,380.657 927.130 7,759.423 11,657.548 27,724.758	A - Int. Ag. Cane Contributory Pasture	354,300.00 44,500.00 15,000.00
(D) S-4240	University of	4/25/69- 4/24/99	Wailua, Kawaihau (Puna)	4-1-01:17 4-1-02:07	9.830	A - Int. Ag.	1.00
S-4244	Island Holidays,	5/13/69- 5/12/2034	Parts 1 & 2, Wailua, Kawaihau (Puna)	4-1-05	.065	U - Com/Ind.	730.00 Full Term
(D) S-4250	Honolulu Gas Co.,	9/09/68- 9/08/2023	Nawiliwili	3-2-03:30	1.614	U - Com/Ind.	3,770.00

ISLAND OF KAUAI

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4254	T. T. Kuramoto & Co., Ltd.	8/12/69- 8/11/2024	Kekaha Town Lots, Kekaha, Waimea,	1-3-08:04	.302	U - Com/Ind.	\$ 515.00
S-4256	Kekaha Sugar Co., Ltd.	8/12/69 - 8/11/89	Waimea (Kona)	1-5-01:19	6.250	C - Watershed License	6,000.00
S-4257	Hiroshi Azeka	8/12/69 - 8/11/2019	Kapaa Town Lots, Kawaihau (Puna)	4-5-09:08	.351	U - Com/Ind.	733.00
(D) S-4259	U.S. of America (Army)	6/17/69- 6/16/89	Parcels 1 & 2, Kokee State Park	1-4-01:03	1.343	C - Unclass.	250.00
(D) S-4265	Kauai Electric Co., Ltd.	3/15/66- 3/14/2031	Wailua, Lihue	3-9-06:26	.158	U - Unclass. ROW	288.00
S-4275	Denny's Repair & Service, Inc.	2/25/70- 2/24/2025	Hanapepe Town Lots, Waimea (Kona)	1-9-05:09	.322	U - Com/Ind.	632.00
S-4276	Iolani Sportswear, Ltd.	1/27/70- 1/26/2035	Hanapepe Business Lots, Waimea (Kona)	1-8-08:40	1.256	U - Com/Ind.	1,970.00
S-4277	William J. Sanchez	1/27/70 - 1/26/95	Kapaa Hmstds., Kawaihau (Puna)	4-4-04:05	49.701	A - Pasture	1,550.00
(D) S-4388	Antone & Pearl F. Perez (Perry)	5/02/7 4 – 5/01/2039	Easement A, Lawai Hmstds., Lawai Kona	2-5-02	.021	A - Unclass. ROW	25.00
(D) S-4389	Manuel & Elsie F. Perez (Perry)	5/02/7 4- 5/01/2039	Easement B, Lawai Hmstds., Lawai Kona	2-5-02	.024	A - Unclass. ROW	\$ 30.00
S-4392	Toshio & Lois N. Hashimoto	12/20/73- 5/25/2031	Hanapepe Rice & Kula Lots, Hanapepe, Waimea Kona	1-9-01:11	4.080	A - Int. Ag. & Res.	1,951.00
S-4393	Christopher Barry Singleton	1/18/74- 1/17/2029	Kainahola Pasture Land, Waipouli, Kawaihau (Puna)	4-4-04:44	40.260	A - Int. Ag.	3,025.00
S-4394	Pride Co., Inc.	12/20/73- 12/19/93	Waiahole, Waimea Valley, Waimea (Kond	1-5-03:01 a)	11.660	A - Int. Ag.	650.00
S-4396	James George Jung, Jr., Ralph E. Daehler, Jean Gregg, Chester Holtwick & Derwyn Lackey	1/18/74- 1/17/94	Kapaa Hmstds., Kawaihau (Puna)	4-4-02:31	19.150	A - Pasture	1,305.00
S-4397	Manji & Emma C. Ouye	1/20/73 - 12/19/2038	Nawiliwili Harbor Nawiliwili, Lihue Puna	3-2-04:56	.808	U - Parking & Landscaping	420.00
S-4398	Kapaa Poi Factory, Inc.	1/20/73- 12/29/2008	Kainahola Pasture Land, Waipouli, Kawaihau (Puna)	4-4-04:43	3.000	A - Com/Ind.	1,200.00
S-4401	Kauai Soto Zen Temple, Zenshuji, Inc.	7/01/74- 6/30/2039	Hanapepe, Waimea (Kona)	1-8-08:82	3.126	U - Unclass.	\$ 2,400.00
(D) S-4406	County of Kauai	7/01/73- 6/30/2038	Kalaheo, Koloa (Kona)	2-4-09:06	.171	C - Unclass. ROW	Gratis
S-4412	The Lihue Plantation Co., Ltd.	10/31/74- 10/30/99	Wailua, Lihue (Puna)	3-9-01:02; 3-9-02:01, 12, 20,25, 26, 27 & 28; 3-9-06:09	6,543.668	A - Int. Ag.	112,742.00
S-4413	The Lihue Plantation Co., Ltd.	10/31/74- 10/30/99	Wailua, Kapaa & Anahola (Puna)	3-9-02:24; 3-9-06:12; 4-1-04:20; 4-3-04:08; 4-5-13:28; 4-5-15:35; 4-6-14:90; 4-7-04:04;	33.702	A - Unclass. ROW	7,352.00

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(D) S-4414	Donald T. Kuntz,	8/08/7 4- 8/07/2039	Waioli, Hanalei (Halelea)	5-5-06	.212	A - Unclass:	216.00 Full Term
	Barbara A. Kuntz, Donna M. Kuntz, James S. Kuntz & Michael J. Kuntz					. 100 A	
(D) S-4436	Tenrikyo Taiheiyo Kyokai	9/01/75- 8/31/2040	Kapaa Town Lots, Kapaa, Kawaihau	4-5-08:08	.347	U - Unclass.	\$ 1,680.00
(D) S-4517	GASCO, Inc.	4/1/72- 3/31/2037	Por. of Gov't Crown Land of Waime adj. to Lot 110 of Kekaha Garden Subv.		.179	U - Unclass. ROW	620.00
(D) S-4547	Citizens Utilities Co.	5/1/77- 4/30/2042	Kekaha Waimea	1-2-02	4.715	U - Unclass.	99.00
(D) S-4551	The Church of Jesus Christ of Latter Day Saints	5/1/80- 4/30/2045	Kapaa, Kawaihau	4-5-09:Block K	.252	U - Unclass.	25.00
S-4554	Eric Paul Christian	8/25/72 - 8/24/2037	Anahola, Kawaihau	4-8-06:por. 26	.062	A - Unclass. ROW	324.60 Full Term
(D) S-4564	Honpa Hongwanji Mission of Hawaii	7/08/77- 7/07/2042	Lot 81, Puu Ka Pele Park Lo Waimea	1-4-02:78 ets,	1.060	C - Rec.	1.00
(D) S-4571	Kauai Electric Co.	4/13/73- 3/14/2031	Wailua, Lihue (Puna)	3-9-06:26	.124	U - Com/Ind.	560.00
(D) S-4572	U.S.A.	6/01/77 - 5/31/97	Nawiliwili, Lihue	3-1-01:1	.021	U - Unclass.	Gratis
(D) S-4573	RKU Enterprises, Inc.	11/30/77- 11/29/2027	Lot 23, Hanapepe Business Lots, Hanapepe, Waimea (H	1-8-08:64 (ona)	.978	U - Com/Ind.	\$ 6,400.00
(D) S-4575	Hiroshi Azeka & Toshiko Azeka & Norman David Thompson & Karen Edith Thompson	11/30/77- 11/20/2017	Gov't Remainder, Nawiliwili, Lihue	3-2-04:14	.576	U - Com/Ind.	5,280.00
(D) S-4576	Lihue Plantation Company, Ltd.	12/15/77- 12/14/2002	Por. of Anahola- Kamalomalo Gov't Lands, Kawaihau	4-7-01, 02, 04; 4-8-02, 03	3,111.000	A - Int. Ag. Cane	41,259.00
S-4576-A	James George Wetherill	12/16/77- 12/15/2042	Lot 7-A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea	1-9-12	.076	A - Unclass. ROW	174.00 Full Term
S-4581	John D. Harder & Vida L. Harder	4/19/78- 4/18/2043	(Kona) Gov't (Crown) Land of Anahola, Kawaihau (Puna) Be Easements "A-A" &		1.075	A - Unclass. ROW	163.00 Full Term
S-4585	Walter S. Palmeira & Nardeen K. Palmeira	5/04/78- 5/03/93	Por. of Gov't Crown Land of Wail across Lihue Jail Wailua, Lihue (Pun	Site,	9,960	A - Int. Ag.	900.00
S-4586	McBryde Sugar Co., Ltd.	5/04/78- 5/03/2003	Lots 10-A & 10-A Hanapepe Rice & Kula Lots, Hanapep Waimea	1-9-02:13 & 45	10.976	A - Int. Ag. Cane	\$ 2,200.00
(D) S-4591	Kauai Electric	10/13/67- 10/12/2032	Nawiliwili Substa. Site, Lihue, Puna	3-3-03	.021	U - Unclass. ROW	33.00
(D) S-4596	U.S. of America, Dept. of Navy	1/28/77-1/27/2027	Mana, Waimea	1-2-02:por 1	.138	C - Unclass.	Gratis
(D) S-4597	United States of America Dept. of the Navy	9/8/78- 8/19/2029	Mana, Waimea Kona, Kauai	1-2-02:por. 1	.110	A - Unclass. ROW	Gratis
S-4607	Richard Cummings Kaui & Clement H. Kaui	11/16/74 11/15/2038	Kapaa, Kauai	4-6-09	.360	U - Unclass. ROW	65.00 Full Term
S-4618	Henry Cobb-Adams III & Dora Leilani Cobb-Adams	10/24/75- 10/23/2040	Anahola, Kawaihau (Koolau)	4-8-06:por. 25 55 & 56	.192	A - Unclass. ROW	442.00 Full Term
S-4645	Wailua Associates	5/16/80- 5/15/2045	Wailua, Kawaihau (Puna)	4-1-03:por. 39	.018	U - Unclass. ROW	2,900.00 Full Term

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S-4646	Alida Toulon White	5/16/80- 5/15/2045	Omao, Koloa	2-7-04:por. 12	.159	A - Unclass. ROW	4,690.00 Full Term
S-4647	Kauai Resort Hotel, Inc.	5/16/80- 7/5/2029	Wailua, Lihue	3-9-06:16	1.770	U - Unclass.	9,714.00
S-4648	Dale M. Matsumura	6/15/80- 6/14/95	Kapaa, Kawaihau	4-5-12:5	.221	U - Unclass.	\$ 2,900.00
S-4649	Ficker and Hunt	5/16/80- 5/15/2005	Kekaha, Waimea	1-3-08:03	.552	U - Com/Ind.	3,900.00
S-4650	Kauai Sand & Gravel, Inc.	6/15/80 - 6/14/2000	Wailua, Lihue (Puna)	3-9-02:3	45.023	A - Pasture	4,500.00
S-4654	Pride Company, Inc.	5/16/80- 5/15/2000	Kekaha, Waimea (Kona)	1-2-02:35	42.019	A - Int. Ag.	3,000.00
S-4655	The Lihue Plantation Company, Limited	5/16/80 5/15/2005	Wailua, Kawaihau (Puna)	4-2-01:por. 3	213.880	A - Int. Ag.	7,000.00
S-4659	Smith's Motor Boat Service, Inc.	10/15/78- 10/14/88	Wailua, Kawaihau (Puna)	3-9-04:3	.167	C - Unclass.	48,000.00
(D) S-4672	U.S. of America, Dept. of the Navy	2/9/79- 2/8/89	Waimea, (Kona),	1-2-01	.014	C - Unclass.	Gratis
S-4674	Honpa Hongwanji Mission	2/1/81- 1/31/96	Kapaa, Kawaihau (Puna)	4-5-06:08	.570	U - Unclass.	1,800.00
S-4739	Walter Lappert	7/16/81- 7/15/2021	Lot 15, Brodie Lots, Hanapepe	1-8-08:62	. 385	U - Com/Ind.	\$5,800.00
S-4740	Wailua Associates	7/16/81- 7/15/2006	Par. C. Wailua Coconut Grove,	4-1-03:17	.855	U - Hotel, Apt. 8 Motel	7,800.00
S-4741	Pioneer Hi-Bred International, Inc.	7/16/81- 7/15/2016	Government Land, Kekaha	1-2-02:por. 6	5.601	A - Int. Ag.	2,625.00
S-4742	Nemesio Carlos	8/15/81- 8/14/91	Government Land, Kapaa	4-3-04:12	3.000	U - Int. Ag.	1,000.00
S-4745	Kauai Sand and Gravel, Inc.	1/16/82- 1/15/92	Government Land, Wailua House Lots	4-1-09:17	11.796	U - Pasture	2,100.00
S-4746	Lincoln Y.T. Ching	7/16/81- 7/15/91	Government Land, Kapaa Rice & Kula Lots	4-5-15:10, 28 & por. 37	30.586	U - Pasture	4,000.00
S-4777	Lee Sandau	1/2/82- 1/1/97	Lot 34, Kapaa Hmstds., First Series, Kapaa	4-6-04:13	5.750	U - Int. Ag.	1,600.00
S-4779	Tsutao Okasako	12/3/81- 12/2/96	Por. of Lot 173, Kapaa Hmstds., Third Series, Kapaa	4-6-08:01	21.400	A - Int. Ag.	2,501.00
S-4780	Samuel K. Thronas	12/3/81- 12/2/91	Iot 24, Wailua Rice & Kula Lots, Wailua		7.824	C - Pasture	\$ 1,150.00
S-4781	Kauai Sand and Gravel, Inc.	1/2/82- 1/1/92	Gov't. (Crown) Land of Wailua, Wailua	3-9-05:19 & 20	21.330	C - Pasture	320.00
S-4782	Fay T. Rapozo	1/2/82- 1/1/92	Gov't. (Crown) Land of Kapaa, Kapaa	4-5-15:35, 36	11.509	U - Pasture	625.00
S-4853	Albert K. Kaui	11/6/81- 11/15/2038	Kapaa River Rem. B,	4-6-09:32 & 50	.360	A - Unclass.	275.00 Full Term
(D) S-4856	Hawaiian Telephone Co.	10/1/81- 9/30/2046	Portion of Lihue Koloa Forest Reserve	2-4-09:por. 03	.046	C - Unclass.	55.00
S-4859	Dale M. Nagamine	4/28/83- 4/27/2003	Lots 12-A-2 & 13-A, Hanapepe Rice & Kula Lots, Hanapepe Waimea		4.037	A - Int. Ag.	500.00
S-4861	Patrick J. Lyons, Sr.	4/28/83- 4/27/2003	Lot A, Pts 1 & 2, Kapaa Hmstds, 1st Series	4-6-02:1,13, 17 and 19	50.647	A - Int. Ag.	6,001.00
S-4862	Nicki Lynn Medeiros	4/28/83- 4/27/2003	Lot 62, Kapaa Hmstds, 1st Series	4-6-06:28 & 29	9.170	A - Int. Ag.	1,925.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4863	Antone Andrade, Sr.	4/28/83- 4/27/2003	Kuwaawaa Pasture Reserve, Kalaheo	2-4-03:01	163.842	A - Int. Ag.	\$6,550.00
S-4864	Alfred Andrade	4/28/83- 4/27/1998	Pasture Reserve C, Kalaheo Homesteads 2nd Series	2-3-07:13	33.212	A - Pasture	3,100.00
S-4865	Antone Andrade, Sr.	4/28/83- 4/27/1998	Kalaheo Reservoir #6, Kalaheo Hmstds, 1st Series	2-4-03:17	7.335	A - Pasture	1,050.00
S-4866	Janna Schlienz	5/28/83- 5/27/1998	Lot 47-A and por. of Lot 47-B, Omao Hmstds, Omao, Koloa	2-7-04:11	5.916	A - Pasture	1,052.00
S-4867	George B. Fernandes	5/28/83- 5/27/1998	Lot 22, Wailua Rice & Kula Lots, Waiwa, Lihue	3-9-04:08	8.280	A - Pasture	1,700.00
S-4868	Vernon J. Souza	4/28/83- 4/27/1998	Por. Lot 7, Wailua Rice & Kula Lots, Wailua Kawaihau (Puna)	4-1-02:20 & 22	4.080	A - Pasture	1,000.00
S-4870	Christina A. Apana	5/28/83- 5/27/1998	Lots 1-A & 1-B, Wailua Rice & Kula Lots,	4-1-03:45 & 46	3.442	A - Pasture	80.00
S-4871	Samuel K. Thronas	4/28/83- 4/27/1998	Govt Land situate between SE boundary of Nonou Forest Res and NW boundary of Wailua Rice and Kul Wailua, Kawaihau (F	erve a Lots,	25,600	A - Pasture	\$ 700.00
S-4872	George B. Fernandes	5/28/83- 5/27/1998	Por. of Govt Crown Land of Wailua, Wailua, Kawaihau, Puna	4-1-09:07 4-1-10:16	7.452	A - Pasture	1,510.00
S-4873	Louis K. Rego, Sr.	5/28/83- 5/27/1998	Lot 1, Kapaa Ag. Lot, Kapaa, Kawaiha	4-3-04:01,14,17	66.570	A - Pasture	4,000.00
S-4874	Patrick Lopez, Sr.	5/28/83- 5/27/1998	Kapaa River Rem. B, Kapaa Hmstds, 4th Series, Kapaa, Kawaihau (Puna)	4-6-09:50	3.400	A - Pasture	1,475.00
S-4875	Kokee Ventures	4/01/83 - 3/31/1998	Lots A, C, D, E & F Kokee State Pk, Waimea, (Kona)	1-4-04:32,73,	5.213	C - Hotel, Apt. Motel Use	& 42,000.00
S-4878	Wailua Associates	8/18/83- 8/17/2048	Wailua, Kawaihau, Puna	4-1-03:05	14.834	U - Com/Ind.	\$7,300.00
S-4879	Kekaha Sugar Co., Ltd.	11/1/83- 10/31/2018	Puu Ka Pele Forest Reserve, Waimea, Puna	1-2-01:por. 3, 4, 7, 8, & 9	22.469	C - Com/Ind.	1,530.00
S-4913-A	Pioneer Hi-Bred International, Inc.	12/29/83- 7/15/2016	Por. Govt. (Crown) Land of Waimea, Kekaha	1-2-02:por. 1 & 6	32.929	A - Int. Ag.	900.00
S-4918	Waialeale Boat	5/15/82- 5/14/92	Wailua River	3-9-02, 03 & 04	.008	C - Com/Ind.	19,800.00
S-4937	Tatsuo Nishi	11/15/84- 11/14/99	Lot 8, Hanapepe Rice & Kula Lots, Hanapepe, Waimea (Kona)	1-9-12:37	2.430	A - Int. Ag.	450.00
S-4938	Russell H. Nonaka	1/13/85- 1/12/2000	Lot 22, Hanapepe Rice & Kula Lots, Hanapepe, Waimea (Kona)	1-9-01:03	4.950	A - Int. Ag.	900.00
S-4939	George B. Fernandes	12/14/84 12/13/99	Par. 1, Wailua Resort Site, Wailua	3-9-06:11	11.482	A - Int. Ag.	1,155.00
S-4940	William J. Sanchez	11/15/84- 11/14/99	Par. A, Kainahola Pasture Land, Kapa Hmstds., 2nd Serie Waipouli (Puna)		33.930	A - Int. Ag.	\$1,180.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4941	Bernard P. Carvalho, Sr.	11/15/84- 11/14/99	Lot 36, Kapaa Hmstds., 1st Series Kapaa, Kawaihau (Pu		6.240	A - Int. Ag.	1,000.00
S-4942	Frank S. Nonaka	11/15/84- 11/14/99	Lot 6A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea (Kona)	1-9-12:11	.950	A - Int. Ag.	250.00
S-4943	Joseph E. Brun & John G. Rita	1/13/85 - 1/12/2000	Sec. E, Hanapepe Gov't. Land, Hanapepe, Waimea (Kona)	1-8-06:03	287.130	A - Int. Ag.	1,875.00
S-4944	Mervin Lloyd Rapozo & Fay Takabayashi Rapozo	12/14/84- 12/13/99	Lots 2-B & 3 & Por. of Lots 5 & 6, Wailua Rice & Kula Lots, Wailua, Kawai (Puna)		15.309	A - Pasture	425.00
S-4945	Bernard P. Carvalho, Sr.	11/15/84- 11/14/99	Lots 8-A & 8-B, Wailua Rice & Kula Lots, Wailua, Kawai (Puna)	4-1-02:12 & 18 hau	8.430	A - Pasture	160.00
S-4946	Glenn Alquiza	1/18/85- 1/17/2000	Lots 53 & 54 (Combined) Hanapepe Town Lots, 1st Seri Hanapape, Waimea (M	es,	.387	U - Comm/Ind.	\$ 4,000.00
S-4947	Bernard P. Carvalho, Sr.	11/20/84- 11/19/99	Lots 39-A & 52, Kapaa Hmstds., 1st Series, Kapaa, Kawaihau, (Puna)	4-6-05:05	2.600	A - Int. Ag.	360.00
S-4968	Smith's Motor Boat	7/3/85- 10/14/88	Lot 21, Wailua	3-9-04:02	22.160	C - Unclass.	10,800.00
S-4969	Helen L. Peterson	4/1/86 - 3/31/2006	Lots 2 & 3, Kokee Camp Site, Waimea	1-4-03:01 & 02	3.660	C - Res.	5,000.00
S-4970	Joel Cavasso	4/1/86 - 3/31/2006	Lot 4, Kokee Camp Site, Waimea	1-4-03:14	1.050	C - Res.	1,700.00
S-4971	Jack G. Harter & Beverly J. Harter	1/1/86- 12/21/2005	Lot 5, Kokee Camp Site, Waimea	1-4-03:16	.980	C - Res.	1,350.00
S-4972	Wayne J. Jacintho & Deborah S. Jacintho	1/1/86 - 12/31/2005	Lot 6, Kokee Camp Site, Waimea	1-4-03:04	.960	C - Res.	2,600.00
S-4973	Albert J. Kocher & Helen S. Kocher	1/1/86- 12/31/2005	Lot 7, Kokee Camp Site, Waimea	1-4-03:05	.810	C - Res.	1,025.00
S-4974	Lealani Corporation	1/1/86- 12/31/2006	Lots 8 & 37, Kokee Camp Site, Waimea	1-4-04:14	1.200	C - Res.	\$ 3,200.00
S-4975	Alma B. Zalopany	1/1/86- 12/31/2005	Lot 9, Kokee Camp Site, Waimea	1-4-03:06	.790	C - Res.	1,300.00
S-4976	Michael A. Givens	1/1/86- 12/31/2005	Lot 10, Kokee Camp Site, Waimea	1-4-03:09	1.420	C - Res.	2,550.00
S-4977	Anna J. Hansen	1/1/86- 12/31/2005	Lot 11, Kokee Camp Site, Waimea	1-4-03:07	1.470	C - Res.	1,150.00
S-4978	Randall J. Hee, Nancy M. Hee, Bob A. Hee, Hong Min Hee, Violett C. L. Hee	1/1/8 6- 12/31/2005	Lot 12, Kokee Camp Site, Waimea	1-4-03:10	2.000	C - Res.	1,350.00
S-4979	Grove Farm Company, Incorporated	1/1/86- 12/31/2005	Lot 13, Kokee Camp Site, Waimea	1-4-03:08	1.120	C - Res.	1,850.00
S-4980	Kikiaola Land Company, Limited	1/1/86- 12/31/2005	Lot 14, Kokee Camp Site, Waimea	1-4-03:12	2.000	C - Res.	2,050.00
S-4981	Harwood D. Williamson & Nancy H. Williamson	1/1/86- 12/31/2005	Lot 15, Kokee Camp Site, Waimea	1-4-03:13	1.820	C - Res.	2,050.00
S-4982	Robert B. White & Alida T. White	4/1/86- 3/31/2006	Lots 17 & 18, Kokee Camp Site, Waimea	1-4-04:38	1.660	C - Res.	\$ 4,200.00

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-4983	Kenji Ego & Winifred S. L. T. Ego	1/1/86- 12/31/2005	Lots 20 & 21, Kokee Camp Site, Waimea	1-4-04:35	.930	C - Res.	5,500.00
S-4984	Ranbir Iwalani Khalsa	1/1/86- 12/31/2005	Lot 22, Kokee Camp Site, Waimea	1-4-04:13	.510	C - Res.	3,000.00
S-4985	Sarah O. Nakamura & Creighton K. Nakamura	4/1/86- 3/31/2006	Lot 27, Kokee Camp Site, Waimea	1-4-04:30	.650	C - Res.	2,600.00
S-4986	Dezma Alex Dunn & Dorothy P. Dunn	1/1/86- 12/31/2005	Lot 29, Kokee Camp Site, Waimea	1-4-04:21	.710	C - Res.	1,550.00
S-4987	Wanda K. Wahineokai	1/1/86 - 12/31/2005	Lot 30, Kokee Camp Site, Waimea	1-4-04:20	.840	C - Res.	4,000.00
S-4988	Rick Ralston & Jim Romig	1/1/86 - 12/31/2005	Lots 31 & 32, Kokee Camp Site, Waimea	1-4-04:19	1,900	C - Res.	5,100.00
S-4989	Juliet Rice Wichman	1/1/86- 12/31/2005	Lot 33, Kokee Camp Site, Waimea	1-4-04:18	.680	C - Res.	2,050.00
S-4990	Charles R. Wichman & Jeanne R. Wichman	1/1/86 - 12/31/2005	Lot 34, Kokee Camp Site, Waimea	1-4-04:17	1.010	C - Res.	4,100.00
S-4991	John H. R. Plews	1/1/86 - 12/31/2005	Lots 35 & 36, Kokee Camp Site, Waimea	1-4-04:16	1.460	C - Res.	\$ 5,600.00
S-4992	Frank O. Hay, Jr.	1/1/86 - 12/31/2005	Lot 38, Kokee Camp Site, Waimea	1-4-04:43	.900	C - Res.	2,850.00
S-4993	Glen Aronson	4/1/86- 3/31/2006	Lot 39, Kokee Camp Site, Waimea	1-4-04:06	.770	C - Res.	2,800.00
S-4994	Ardel H. Deppe	4/1/86- 3/31/2006	Lot 40, Kokee Camp Site, Waimea	1-4-04:05	1.110	C - Res.	3,650.00
S-4995	Maile Marcallino Taylor	1/1/86- 12/31/2005	Lot 41, Kokee Camp Site, Waimea	1-4-04:07	.620	C - Res.	2,050.00
S-4996	Robert L. Miller & Dian Bwart Miller	1/1/86- 12/31/2005	Lots 42 & 44, Kokee Camp Site, Waimea	1-4-04:04	1.440	C - Res.	2,750.00
S-4997	Arthur Palama & Lena K. Palama & Abduladim M. Senussi	4/1/8 6- 3/31/2006	Lot 43, Kokee Camp Site, Waimea	1-4-04:08	.690	C - Res.	2,500.00
S-4998	David Wilson Cornwell	1/1/8 6- 12/31/2005	Lot 54, Kokee Camp Site, Waimea	1-4-04:09	1.320	C - Res.	5,525.00
S-4999	Kenneth R. Harding & Katharine K. Harding	1/1/86 - 12/31/2005	Lot 46, Kokee Camp Site, Waimea	1-4-04:10	1.110	C - Res.	2,225.00
S-5021	William S. Dunford	1/1/86- 12/31/2005	Lot 47, Kokee Camp Site, Waimea	2-4-04:03	1.210	C - Res.	\$ 2,225.00
S-5022	Dorothea M. Nomura	1/1/86- 12/31/2005	Lot 50, Kokee Camp Site, Waimea	1-4-03:11	.800	C - Res.	2,600.00
S-5023	Ted K. Blake & Edward K. Schimmelfennig	1/1/86- 12/31/2005	Lot 51, Kokee Camp Site, Waimea	1-4-03:17	.580	C - Res.	4,200.00
S-5024	Wilfred J. Baldwin & Anne K. Baldwin & A. J. Toulon & Elizabeth Toulon	1/1/86- 12/31/2005	Lot 52, Kokee Camp Site, Waimea	1-4-03:03	.960	C - Res.	2,050.00
S-5025	David Palama & Beverly Palama	4/1/86- 3/31/2006	Lot 53, Kokee Camp Site, Waimea	1-4-04:44	1.440	C - Res.	3,500.00
S-5026	Carol M. Wilcox & Diame G. Faye	1/1/86- 12/31/2005	Lot 54, Kokee Camp Site, Waimea	1-4-04:12	.400	C - Res.	3,025.00
S-5027	Jean S. Hom	1/1/86 - 12/31/2005	Lot 55, Kokee Camp Site, Waimea	1-4-04:11	.310	C - Res.	2,700.00
S-5028	Waimea Garage, Limited	1/1/86 - 12/31/2005	Lot 58, Kokee Camp Site, Waimea	1-4-04:24	1.030	C - Res.	3,200.00
S-5029	Francis X. Warther & Enes B. Warther	1/1/86- 12/31/2005	Lots 60 & 63, Kokee Camp Site, Waimea	1-4-04:01	.660	C - Res.	2,800.00
S-5030	Donn A. Carswell & Gale F. Carswell	1/1/86 - 12/31/2005	Lot 61, Kokee Camp Site, Waimea	1-4-04:28	1.000	C - Res.	\$ 3,750.00

ISLAND OF KAUAI

Fiscal Year 1985-86

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Term of Classification Annual Tax Map Area Lease and Use No. Location Key (Acres) Rental Tessee Lease 2,750.00 Lot 64, Kokee 1.070 C - Res. 1/1/86-Kathryn T. Dinham 1-4-04:40 S-5031 12/31/2005 Camp Site, Waimea 1/1/86-1-4-04:36 .830 C - Res. 2,050,00 Lot 65. Kokee Kenneth T. Perreira & Claire T. P. Perreira S-5032 12/31/2005 Camp Site, Waimea 1/1/86-Lot 67, Kokee 1-4-04:41 .500 C - Res. 3,950.00 5-5033 William J. McCord & 12/31/2005 Camp Site, Waimea Barbara W. McCord; William B. Wilson & Helen Sue W. Wilson; Paul J. Farrell & Leona W. Farrell; Robert T. Watts, Jr. & Karen S. Watts; and Kendall T. Watts .530 C - Res. 4,000.00 David S. Boynton 1/1/86-Lot 71, Kokee 1-4-04:62 S-5034 12/31/2005 Camp Site, Waimea S-5035 William S. Olson 1/1/86-Lot 72, Kokee 1-4-04:68 .560 C - Res. 2,600,00 12/31/2005 Camp Site, Waimea .560 C - Res. 2.750.00 Douglas M. Wedemeyer 1/1/86-Lot 75, Kokee 1-4-04:69 S-5036 12/31/2005 Camp Site, Waimea C - Res. \$ 2,500.00 1/1/86-.540 S-5037 Back to Eden, Lot 79, Kokee 1-4-04:63 12/31/2005 Incorporated Camp Site, Waimea 2,000.00 1/1/86-Lot 81, Kokee .550 C - Res. 1-4-04:60 Richard Vidinha & S-5038 12/31/2005 Camp Site, Waimea Elisa C. Vidinha Lot 84, Kokee 1-4-04:55 .670 C - Res. 2,800.00 Michael K. Nakaahiki, Jr. 1/1/86-S-5039 & Katharine H. Nakaahiki; 12/31/2005 Camp Site, Waimea Bruce A. Morehead & Angela M. Morehead; Donald K. Smythe & Rosemary K. Smythe .790 3,050.00 1/1/86-Lot 85, Kokee 1-4-04:58 C - Res. S-5040 Salvatore Bosco 12/31/2005 Camp Site, Waimea 1/1/86-Lot 86, Kokee 1-4-04:59 .580 C - Res. 3,500.00 Shawn Sanchez & S-5041 12/31/2005 Camp Site, Waimea Gerald M. Sanchez .590 2,725.00 S-5042 Sam H. Tao & Dorothy M. 1/1/86-Lot 87, Kokee 1-4-04:52 C - Res. Tao & Grace Tao 12/31/2005 Camp Site, Waimea .540 2,325.00 S-5043 Mahel Makanani 1/1/86-Lot 88. Kokee 1-4-04:53 C - Res. 12/31/2005 Camp Site, Waimea 2,600.00 Takashi Ueda; James Y. 4/1/86-Lot 89, Kokee 1-4-04:54 470 C - Res. S-5044 Ueda; Steve Y. Ueda; 3/31/2006 Camp Site, Waimea Walter S. Ueda \$ 3,000.00 1-4-04:47 .440 C - Res. 1/1/86-Lot 90, Kokee S-5045 John Y. S. Ching & Annabelle K. Ching; 12/31/2005 Camp Site, Waimea John Y. S. Ching, Jr.; Jere I. Ching; Jayson J. Ching James F. Hackett 1/1/86-Lot 91, Kokee 1-4-04:48 .580 C - Res. 3,001.00 S-5046 12/31/2005 Camp Site, Waimea C - Res. 2,625,00 1/1/86-Lot 92, Kokee 1-4-04:49 .530 S-5047 Gregory D. Bridges & Diane Bridges 12/31/2005 Camp Site, Waimea 4/1/86-Lot 93. Kokee .420 C - Res. 2,550.00 1-4-04:50 S-5048 Malcolm S. Smith 3/31/2006 Camp Site, Waimea C - Res. 1,925.00 1/1/86-Lot 1, Puu Ka Pele, 1-4-02:31 .970 S-5049 William M. Moragne, Jr. 12/31/2005 Waimea & Jena B. Moragne C - Res. 2,600.00 1/1/86-Lot 2, Puu Ka Pele, 1-4-02:48 .960 The Lihue Plantation S-5050 12/31/2005 Waimea Co., Ltd. .970 C - Res. 2,100.00 1/1/86-Lot 3, Puu Ka Pele, 1-4-02:18 S-5051 Hajime Takanishi & 12/31/2005 Kimiyo O. Takanishi Waimea 4,400.00 Henry Isao Nosaka & 1/1/86-Lot 4, Puu Ka Pele, 1-4-02:30 .730 C - Res. 5-5052 12/31/2005 Margaret Keiko Nosaka; Waimea Wallace Kzauo Karimoto & Mikie Nosaka Karimoto

ISLAND OF KAUAI

Fiscal Year 1985-86

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Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
5- 5053	Carlo Panfiglio & Steve Panfiglio	1/1/86- 12/31/2005	Lot 5, Puu Ka Pele, Waimea	1-4-02:31	1.130	C - Res.	\$ 2,450.0
5-5054	Henry A. Alexander & Norene J. Alexander & Elizabeth G. Alexander	1/1/86– 12/31/2005	Lot 6, Puu Ka Pele, Waimea	1-4-02:28	.920	C - Res.	2,025.0
÷-5055	David W. Pratt; Joan C. Pratt; C.D. Pratt, Jr.; Barbara P. Vaughan & Alice B. Wolff	1/1/86- 12/31/2005	Lot 7, Puu Ka Pele, Waimea	1-4-02:29	1,020	C - Res.	1,900.0
- 5056	John J. McEvoy & Sandra L. McEvoy	1/1/86- 12/31/2005	Lot 10, Puu Ka Pele, Waimea	1-4-02:41	.990	C - Res.	3,825.0
-5057	Paul S. Hurley & Maile F. Hurley, Wallace Isani Terui, Jr.	1/1/86- 12/31/2005	Lot 11, Puu Ka Pele, Waimea	1-4-02:12	.840	C - Res.	3,100.00
÷-5058	Frank W. N. Cox & Aileen S. Cox; Lenore L. Seto; Kaniau K. Torris; H. Hoover Cox	1/1/86- 12/31/2005	Lot 12, Puu Ka Pele, Waimea	1-4-02:47	.950	C - Res.	2,125.00
5-5059	Ka Imi Naauao O Hawaii Nei	1/1/86- 12/31/2005	Lot 13, Puu Ka Pele, Waimea	1-4-02:20	1.000	C - Res.	3,150.00
-5060	Jeffrey M. Nakamura & Joyoe A. Nakamura	1/1/86- 12/31/2005	Lot 15, Puu Ka Pele, Waimea	1-4-02:23	1.020	C - Res.	\$ 3,325.00
-5061	Lawrence Vidinha & Daisy R. Vidinha	1/1/86- 12/31/2005	Lot 16, Puu Ka Pele, Waimea	1-4-02:21	.900	C - Res.	2,675.00
-5062	Martin O. Wilson & Palakata Corporation	4/1/86 - 3/31/2006	Lot 18, Puu Ka Pele, Waimea	1-4-02:25	1.050	C - Res.	2,825.00
-5063	Robert Miller Harris; Kenneth Richard Wood &	1/1/86- 12/31/2005	Lot 19, Puu Ka Pele, Waimea	1-4-02:26	1.030	C - Res.	2,650.00
5064	John J. Tenuto & Gayla C. McCarthy	1/1/86- 12/31/2005	Lot 20, Puu Ka Pele, Waimea	1-4-02:27	.820	C - Res.	2,920.00
5065	Richard R. Singleton & Judith Samford	1/1/86- 12/31/2005	Lot 23, Puu Ka Pele, Waimea	1-4-02:46	.790	C - Res.	2,950.00
-5066	Charles E. Thompson & Sue Ellen Thompson	1/1/86- 12/31/2005	Lot 24, Puu Ka Pele, Waimea	1-4-02:13	.990	C - Res.	3,300.00
-5067	Wayne M. Sakai & Edith N. Sakai; Dennis M. Sakai & Carol Y. Sakai; Roy M. Nitta & Aileen S.	1/1/86- 12/31/2005	Lot 25, Puu Ka Pele, Waimea	1-4-02:14	. 890	C - Res.	3,210.00
-5068	Nitta Judith L. Matthews	1/1/86-		1-4-02:10	1.000	C - Res.	\$4,275.00
-5069	James W. Luske & Melodie C. Luske	12/31/2005 1/1/86- 12/31/2005	Pele, Waimea Lot 30, Puu Ka	1-4-02:22	.910	C - Res.	3,375.00
-5070	Norman S. Nitta & Priscilla M. Nitta; Donald J. Nitta & Janice F. Nitta; Hisako U. Nitta	1/1/86- 12/31/2005	Pele, Waimea Lot 33, Puu Ka Pele, Waimea	1-4-02:08	.850	C - Res.	2,820.00
-5071	Alfred L, Steelman & Suzy Steelman; John C. Pynenburg & Michelle Pynenburg; Francis Zablan & Llewella Zablan;	4/1/86– 12/31/2005	Lot 35, Puu Ka Pele, Waimea	1-4-02:15	1.030	C - Res.	3,250.00
	Howard Krawitz & Lorraine Krawitz; and Glenda A. Tucker						
-5072	Richard C. Sutton & Ann Colgate Sutton	1/1/86- 12/31/2005	Lot 37, Puu Ka Pele, Waimea	1-4-02:44	.880	C - Res.	2,720.00
-5073	Charles J. Haffner & Janet Haffner; Damascio Ruiz, Jr. &	1/1/86- 12/31/2005		1-4-02:43	1.030	C - Res.	2,500.00

ISLAND OF KAUAI

Fiscal Year 1985-86

Term of Tax Map Area Classification Annual Lease Lessee Location (Acres) and Use Rental No. Lease Key 1,000 C - Res. \$ 2,210.00 S-5074 Robert L. Stevens; 1/1/86-Lot 43, Puu Ka 1-4-02:39 12/31/2005 J.S. Robertson III; Pele, Waimea James Tucker; & Henrietta P. Kaohelaulii Lot 44, Puu Ka 1.000 C - Res. 2,525.00 1/1/86-1-4-02-40 S-5075 James C. Richardson; 12/31/2005 Margaret J. Watt; Pele, Waimea Jan W. TenBruggencate Helen S. Vierra & Thomas W. Vierra 2,510.00 1/1/86-Lot 46, Puu Ka 1-4-02:36 1,120 C - Res. S-5076 12/31/2005 Pele, Waimea 1/1/86-Lot 47, Puu Ka 1-4-02:34 1.150 C - Res. 3,100.00 S-5077 Angus Trent & James Hovle 12/31/2005 Pele, Waimea S-5078 George A. K. Kruse & 1/1/86-Lot 48, Puu Ka 1-4-02:41 1,000 C - Res. 1,625,00 Martha S. Kruse 12/31/205 Pele, Waimea 1.010 3,000.00 Lot 50, Puu Ka 1-4-02:35 C - Res. Mary Lou Zoenoelani 1/1/86-S-5079 12/31/2005 Lewis, dba Pele, Waimea Zuttermeister's Hula Studio 1/1/86-Lot 51, Pun Ka 1-4-02:51 1.050 C - Res. 2,525,00 Kiyoshi Nakaya & S-5080 12/31/2005 Pele, Waimea Julia Nakaya 1.030 C - Res. 3,725,00 1/1/86-Lot 52, Puu Ka 1-4-02:52 Paulette Burtner S-5081 12/31/2005 Pele, Waimea \$ 2,700.00 4/1/86-Lot 53, Puu Ka 1-4-02:53 1.030 C - Res. S-5082 Raymond P. Rapozo, Sr. & Maureen Y. Rapozo; 12/31/2005 Pele, Waimea Robert H. Agena & Yolanda T. Agena; Lawrence K. Agena & Audrey K. Agena Lot 54, Puu Ka Pele, Waimea 1.050 3,350.00 1/1/86-1-4-02:54 C - Res. Ann Howard Downs S-5083 12/31/2005 C - Res. 2,450.00 Ralph S. Kouchi; Alvin M. Kouchi; 4/1/86-Lot 59, Puu Ka 1-4-02:59 1.010 S-5084 3/31/2006 Pele, Waimea Neil Shiraki: Harold Kojima; Garrett Sokei; & Eric Sakazaki 3,100,00 1,010 C - Res. S-5085 Susan Reeves 4/1/86-Lot 60, Puu Ka 1-4-02:60 3/31/2006 Pele, Waimea 2,500.00 1/1/86-1-4-02:61 .950 C - Res. S-5086 Richard A. Kawakami & Lot 61, Puu Ka 12/31/2005 Bertha B. L. Kawakami; Pele, Waimea Akira & Gertrude S. Toma 1.050 C - Res. 780.00 5-5087 Anna L. Knapo 1/1/86-Lot 62, Puu Ka 1-4-02:62 12/31/2005 Pele, Waimea Lot 63, Puu Ka S-5088 Paul T. Matsunaga & 1/1/86-1-4-02:63 .900 C - Res. 2,550,00 Arline Y. Matsunaga 12/31/2005 Pele, Waimea \$ 580.00 .870 C - Res. S-5089 Wallace K. Tasaka & 1/1/86-Lot 69, Puu Ka 1-4-02:66 Yuriko N. Tasaka & 12/31/2005 Pele, Waimea Richard H. Nagoshi 2,700.00 Dennis E. Fukushima & 4/1/86-Lot 70, Puu Ka 1-4-02:67 .790 C - Res. 5-5090 Pele, Waimea Jerilyn R. Fukushima; Maurice Contrades & 3/31/2006 Arlene Contrades; Warren H. Onishi; & Glenn Katahara 3,000,00 S-5091 Robert Taylor Sweney 1/1/86-Lot 71, Puu Ka 1-4-02:68 1.120 C - Res. 12/31/2005 Pele, Waimea Lot 72, Puu Ka 1.080 2,625.00 1-4-02:69 C - Res. S-5092 Calvin M. Tokita & 1/1/86-12/31/2005 Phyllis Y. Y. Tokita Pele, Waimea 4/1/86-Lot 74, Puu Ka .900 C - Res. 3,500.00 John Enos, Jr. & Aileen P. T. S. Enos 1-4-02:71 S-5093 3/31/2006 Pele, Waimea 1-4-02:73 .960 C - Res. 2,650,00 1/1/86-Lot 76, Puu Ka Albert C. Braun, Jr. & S-5094 12/31/2005 Pele, Waimea

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Adele A. Braun

ISLAND OF KAUAI

Fiscal Year 1985-86

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Lease No.	Lessee	Term of Lease	Iocation	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
S-5095	Isaac W. Kaiu & Gladys Y. Kaiu; Philip S. H. Ing & Myrna L. Ing	1/1/86- 12/31/2005	Lot 78, Puu Ka Pele, Waimea	1-4-02:75	.980	C - Res.	3,200.00
S-5096	Jennie L. Lyum & Leslie M. H. Lyum	1/1/86- 12/31/2005	Lot 79, Puu Ka Pele, Waimea	1-4-02:76	1.150	C - Res.	\$ 2,225.00
S-5097	Anthony P. Locricchio & Barbara M. Locricchio; Gerry P. Germo & Carol D. U. K. Germo; David E. Howell & Sandra L. Howell; John P. Waters & Kathleen Bettyas; & Michael A. Blank	4/1/86- 3/31/2006	Lot 82, Puu Ka Pele, Waimea	1-4-02:79	1.110	C - Res.	3,300.00
S-5098	Leonard K. Pope & Paula E. Pope; Sherwood C. Conant II & Lili Bryan-Conant; & Salvatore F. DeLeonardo	1/1/86– 12/31/2005	Lot 83, Puu Ka Pele, Waimea	1-4-02;81	1,000	C - Res.	2,500.00
S-5099	Robert J. Orlik & Ferne V. Orlik; Thomas D. King; Jr.; & Kelsey Maddox-Bell	1/1/86- 12/31/2005	Lot 84, Puu Ka Pele, Waimea	1-4-02:86	.820	C - Res.	2,500.00
S-5100	Lawrence E. Jordan & Cheryl M. Jordan	1/1/86- 12/31/2005	Lot 89, Pun Ka Pele, Waimea	1-4-02:85	.990	C - Res.	1,650.00
S-5101	Hawaii Conference of the United Church of Christ	1/1/86- 12/31/2005	Lot 56, Kokee Camp Site, Waimea	2-4-02:27	.500	C - Rec.	132.00
S- 5102	Hawaii Methodist Union	1/1/86- 12/31/2005	Lots 14, 90 & 91 Puu Ka Pele, Waimea	1-4-02:24	3.050	C - Rec.	\$ 132.00
S-5103	Hawaiian Association of Seventh-Day Adventists	1/1/86- 12/31/2005	Lots 55, 56, 57, & 58, Puu Ka Pele, Waimea	1-4-02:55, 56, 57 & 58	4.080	C - Rec.	132.00
S-5110	Lehua Fernandes Salling & William Kimo Fernandes	4/13/84- 12/17/2001	Wailua, Kawaihau (Puna)	2-9-04:por 21	1.429	- Unclass. (Easement)	200.00
S-5113	Iwao Nonaka	3/29/86- 3/28/2001	Lot 24, Hanapepe Rice & Kula Lots, Hanapepe, Waimea	1-9-01:14	6.100	- Int. Ag.	1,475.00
S-5114	Samuel K. Thronas	2/27/86- 2/26/2001	Lots 23-A & 23-B Wailua Rice & Kula Lots, Wailua, Kawaihau (Puna)	4-2-03:03	14.405	A - Pasture	400.00
S-5115	Mervin L. Rapozo	2/27/86— 2/26/2001	Lots 16, 17 & 18 Wailua Rice & Kula Lots, Wailua, Kawaihau (Puna)	4-1-01:01, 03 & 04	12.300	A - Int. Ag.	850.00
S-5116	Jules Kanarek	2/27/8 6- 2/26/2001	Parcels A & B Portions of Gov't (Crown) Land of Kapaa, Kawaihau (Puna)	4-6-09:46	6.500	A - Pasture	75.00
S-5117	George B. Fernandes	2/27/8 6- 2/26/2001	Portion of Gov't (Crown) Land of Wailua, Kawaihau (Puna)	4-1-09:08	11.746	A - Pasture	\$ 200.00
S-5118	Masao Takatsuki	2/27/86- 2/26/2001	Lots 12, 13 & 14, Wailua Rice & Kula Lots, Wailua, Kawaihau, (Puna)	4-1-01:12	6.130	A - Int. Ag.	420.00
S-5119	Samuel K. Thronas	2/27/86- 2/26/2001	Lot 15 Adjoining Gov't Land, Wailua Rice & Kula Lots, Wailua, Kawaihau (Puna)	4-1-01:07	16.710	A - Int. Ag.	800.00

ISLAND OF KAUAI

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	(Acres)	Classification and Use	Annual Rental
S-5120	Manuel Andrade, Jr. & Manuel H. Andrade, Sr.	3/29/86- 3/28/2001	Lot 7-A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea, (Kona)	1-9-12:05	3.080	A - Int. Ag.	1,000.00
S-5121	Joseph H. Chu & Helen B. H. Chu	3/29/86- 3/28/2001	Lot 19, Hanapepe Rice & Kula Lots, Hanapepe, Waimea (Kona)	1-9-02:19	1.140	A - Int. Ag.	500.00
S-5122	William E. Fernandes	2/27/86- 2/26/2001	Lots 26, 27, 29 30 & 37, and Portion of Hoopau Swamp of Henalei Hustds., Hanalei	5-4-03:33 & 42	7.300	A - Pasture	\$ 90.00



COVER

An example of a native Hawaiian montane rain forest found on Molokai. These areas are important habitat for endemic forest birds and plants.

ISLAND OF HAWAII

Fiscal Year 1985-86

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental	
S-4950	Boteilho Hawaii Enterprises, Inc.	4/1/85- 3/31/2020	Opihipau & Hukiaa, N. Kohala	5-5-06:02,03, 04 and 15	597.406	A - Pasture	21,000.00	
S-4952	Yotsuo Fuke Sakae Fuke	1/1/85- 12/31/2049	Waiakea, S. Hilo	2-4-56:14	.099	U - Unclass.	2,100.00 Full Term	
S-4954	Pacific Paradise, Inc.	4/11/85 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:07, 15, 16, & 18	655.990	A - Int. Ag.	7,425.00	
S-4955	Pacific Paradise, Inc.	4/11/85 - 4/10/2020	Kaimu-Makena Hmstds., Puna	1-2-06:19, 20	816.000	A - Int. Ag.	4,050.00	
S-4956	Antonio Makaena Akiu	7/22/85 - 7/21/2050	Lot 1, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.175	C - Res.	132.00	
S-4957	Steven Kepano Kuahuia	7/22/85 - 7/21/2050	Lot 2, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4958	Pacita Billings	7/22/85- 7/21/2050	Lot 3, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$ 132.00	
S-4959	Myrah Malaea Kamaka	7/22/85 - 7/21/2050	Lot 4, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4960	Leilani Maulili Kahele	7/22/85 - 7/21/2050	Lot 5, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4961	Dora K. Halena	7/22/85 - 7/21/2050	Lot 6, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4962	Robelto Kaleianuinui Martines	7/22/85 - 7/21/2050	Lot 7, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4963	Amoe Casuga	7/22/85 - 7/21/2050	Lot 8, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4964	Abel Pepe Kahele	7/22/85 - 7/21/2050	Lot 10, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	132.00	
S-4965	Raymond Kukulu Kuahuia	7/22/85- 7/21/2050	Lot 11, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.110	C - Res.	\$132.00	
S-4966	Delfrado J. Leanes, Jr.	7/22/85 - 7/21/2050	Lot 13, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.180	C - Res.	132.00	
S-4967	Bugene Holualoa Chang	7/22/85- 7/21/2050	Lot 16, Milolii Hoopuloa Lots, Hoopuloa, S. Kona	8-9-04:22 por.	.230	C - Res.	132.00	
S-5000	Tsugio Sakata	3/31/67- 3/30/2032	Por. Govt Land Waimea, S. Kohala	6-5-04:por. 15	.012	U - Unclass. ROW	13.00	
S-5001	K. Kobata & Sons	3/31/67- 3/30/2022	Waiakea, S. Hilo	2-2-32:10	.988	U - Com/Ind.	27,894.00	
S-5003	Francis C. De Morales	3/31/67- 3/30/92	Waiakea Hmstds., S. Hilo	2-4-06:12 2-4-07:37	130.390	A - Pasture	330.00	
S-5004	Sueichi & Yoshiko Kawashima	3/31/67- 3/30/92	Paauilo, Hamakua	4-3-15:10	3.040	A - Int. Ag.	121.00	
S-5005	Puna Certified Nursery, Inc.	3/31/67- 3/30/2002	Keonepoko-Nui, Puna	1-5-08:05	5.000	A - Int. Ag.	576.00	
S-5015	Motoshi Sako	5/19/67- 5/18/2002	Por. Gov't. Land of Olaa, Puna	1-7-01:63	.466	U - Com/Ind.	485.00	
S-5017	Dorothy E. Nishie & Grace M. Shima, Trustees	5/19/67- 5/18/2032	por. Lalamilo, Waimea, S. Kohala	6-6-09:52	.033	U - Unclass. ROW	\$ 28.00	
S-5018	Pacific Standard Life Insurance Company	5/19/67- 5/18/2032	Ocean View Lots, Waiakea, S. Hilo	2-1-05:21 & 31	1.091	U - Com/Ind.	10,600.00	

ISLAND OF HAWAII

Fiscal Year 1985-86

Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification and Use	Annual Rental
Kohala Ditch Co.,	5/19/67- 12/31/91	Hamakua & N. Kohala	6-3-02:04 & 05	5,844.000	C - Watershed	8,000.00
Richard Smart	5/19/67- 5/18/92	Awalua-Haena Gov't. Tract, N. Kohala	5-6-01:01	185.550 8.800 14.480 22.250 231.080	A - Int. Ag. Cane ROW Waste Pasture	1,856.00
	Kohala Ditch Co., Ltd.	Lessee Lease Kohala Ditch Co., 5/19/67- Ltd. 12/31/91 Richard Smart 5/19/67-	Kohala Ditch Co., 5/19/67- Hamakua & 12/31/91 N. Kohala Richard Smart 5/19/67- Awalua-Haena Gov't.	Lessee Lease Location Key Kohala Ditch Co., 5/19/67- Hamakua & 6-3-02:04 Ltd. 12/31/91 N. Kohala & 05 Richard Smart 5/19/67- Awalua-Haena Gov't. 5-6-01:01	Lessee Location Key (Acres) Kohala Ditch Co., 5/19/67- Hamakua & 6-3-02:04 5,844.000 Ltd. 12/31/91 N. Kohala & 05 Richard Smart 5/19/67- Awalua-Haena Gov't. 5-6-01:01 185.550 5/18/92 Tract, N. Kohala 14.480 22.250	Lessee Location Location

79

OUTSIDE MONEY RECEIVED Fiscal Year 1985-1986

Source	Amount	_
Forest Product Sales Hunting License Sales Other Minor Miscellaneous Sales, Rental and Charges Temporary Deposit Federal Assistance:	\$ 88,883 89,918 1,503 1,773	
Cooperative Forestry Assistance Act Pittman-Robertson Wildlife Restoration Endangered Species Act - Plants Endangered Species Act - Wildlife	121,288 638,683 23,768 26,532	
Recovery of Indirect Cost Late Refund for Prior Year Expenditure Rural Community Fire Protection - County Fire Dept.	76,194 15,913 13,500	
Total	\$1,097,955	

DIVISION OF STATE PARKS, OUTDOOR RECREATION AND HISTORIC SITES

The Division of State Parks, Outdoor Recreation and Historic Sites administers the State park system, the historic preservation program and the State recreation planning program. Basic activities relating to these functions are divided among three programs of the State's budgeting system: Historic and Archaeological Places, Parks Recreation and General Administration for Culture and Recreation.

HISTORIC AND ARCHAEOLOGIC PROGRAM

The objective of this program is to preserve and make available for appreciation and study, places of historic and archaeological significance. Major activities include acquisition, planning, research, stabilization, preservation, rehabilitation, restoration, reconstruction and interpretation.

Land Acquisition

Kealakekua Bay Historical Park, Hawaii. Acquisition of the two remaining private lands was completed. A total of 66.642 acres were acquired for \$713,880. Government lands will need to be set aside to establish the proposed State historical park.

Planning and Development

Iolani Palace State Monument, Oahu. Phase XI of the restoration of Iolani Palace was completed and a contract for Phase XII was awarded. Under Phase XI, the Iolani Palace grounds were improved and restored, as closely as possible, to the Monarchy period. Phase XII calls for the restoration and renovation of the Kanaina Building into a visitor center.



The Reverend William Kaina blessing the Iolani Palace grounds during the ground-breaking ceremony for Phase XI of the Iolani Palace Complex Restoration.

Kealakekua Bay State Historical Park, Hawaii. The planning of the proposed State historical park at Kealakekua Bay is continuing. The report of the Advisory Committee for Kealakekua Bay State Historical Park was completed. It presented recommendations on the development, management, and operation of the proposed historical park. A contract for a topographic survey of the Napoopoo Area was awarded.

Royal Mausoleum State Monument, Oahu. Phase V of the restoration of the Royal Mausoleum Chapel was completed. About 75% of the chapel has been restored.

Lapakahi State Historical Park, Hawaii. A contract was awarded to pave the entry roadway and parking area at the park.

Historic Preservation Grants-in-Aid

Federal funds totalling \$97,310 were allocated for survey and planning of historic properties. Six projects were funded during this period.

1.	Project Bishop Museum to continue the coordination and accession of the Bishop Museum archaeological inventory data bases with the State of Hawaii, Historic Sites Section.	Grant Amount \$22,000
2.	Hawaii Heritage Center for the production of a calendar depicting the variety of archaeological sites found in the State of Hawaii.	\$12,350
3.	Thousand Friends of Kauai to un- dertake a cultural landscape inven- tory of the Hanalei and Waioli ahupuaa.	\$ 8,208
4.	June Cleghorn to organize and prepare the State historic sites inventory files for automation.	\$14,000
5.	Social Science Research Institute to undertake an historic archaeo- logical inventory of Kakaako, and prepare a sensitivity map for the district.	
6.	Maui, Hawaii and Kauai Counties to develop their own historic preservation ordinances. The ordinance is required for the Counties to continue participating in the federal historic preservation program.	

PARKS RECREATION PROGRAM

The program objective is to provide opportunities and facilities for nonorganized outdoor park recreation activities and for appreciation of unique natural features. Activities carried out in this program include the acquisition of desirable lands for park utilization; and the planning, development and management of coastal parks, inland parks and parks with outstanding natural features.

Planning and Development

Kahana Valley State Park, Oahu. The Kahana Advisory Council completed a conceptual development plan for this State park. The plan proposes to develop a park and to have

CONSTRUCTION AND MAINTENANCE OF ROADS, TRAILS, AND FENCES Fiscal Year 1985-1986

	Mile	s of Constru	uction	Miles of Maintenance				
Island	Roads	Trails	Fences	Roads	Trails	Fences		
Hawaii	0	0	1.3	29.0	0	0		
Maui	0	0	0.5	119.4	8.6	20.8		
Molokai	0	0	0	151.6	3.5	11.4		
Oahu	0.1	0	0	30.9	54.7	100.6		
Kauai	0	0.5	0.5	57.9	64.8	13.7		
Lanai	0	0	0	12.5	0	0		
Total	0.1	0.5	2.3	401.3	131.6	146.5		

FOREST AND BRUSHLAND FIRES IN MUTUAL AID (CM-2) PROTECTION AREAS Fiscal Year 1985-1986

	Number							
Item	Hawaii	Maui/Molokai	Oahu	Kauai	Total			
Total No. of Fires								
(1986 Sum)	63	32	3	13	111			
No. of Fires by Cause:								
Lightning	1	0	0	0	1			
Campfire	0	2	0	2	4			
Smoking	11	5	1	1	18			
Incendiary	13	3 5	0	1	17			
Debris Burning	15	5	0	5	25			
Equipment Use	3	2	0	1	6			
Children with Matches	1	6	0	0	7			
Miscellaneous	19	9	2	3	33			
No. of Fires by Size-Class:								
Less than 1 acre	44	26	3	10	83			
1 to 9 acres	13	6	0	3	22			
10 to 99 acres	3	0	0	0	3			
100 to 299 acres	1	0	0	0	1			
300 to 999 acres	0	0	0	0	0			
More than 1,000 acres	2	0	0	0	2			
Total Acres Burned	5,720	16.5	0	7.7	5,744.			

WILDLIFE HABITAT IMPROVEMENT, NOXIOUS PLANT CONTROL, EROSION CONTROL AND ARBORETA MAINTENANCE Fiscal Year 1985-1986

	Acres of Accomplishment								
Island	Wildlife Habitat Improvement	Noxious Plant Control	Erosion Control	Arboreta Maintenance					
Hawaii	4.5	3	4	188					
Maui	4.0	5	0	82					
Molokai	13.0	0	0	0					
Oahu	1.0	0	0	114					
Kauai	102.0	35	6	211					
Lanai	22.0	0	0	0					
TOTAL	146.5	43	10	595					

NUMBER OF GAME MAMMALS HARVESTED FROM PUBLIC HUNTING AREAS Fiscal Year 1985-1986

			Nun	ber Harvest			
Mammal	Hawaii	Kauai	Maui	Molokai	Oahu	Lanai	Total
Dia Poar	303	243	103	21	2	0	672
Pig, Boar Pig, Sow	256	210	77	9	0	0	552
Blacktail Deer,	0	18	0	0	0	0	18
Buck							
Goat, Billy	41	126	0	2	0	0	169
Goat, Nanny	21	81	0	3	0	0	105
Mouflon Sheep, Ram		0	0	0	0	61	123
Mouflon Sheep, Ewe	43	0	0	0	0	0	43
Feral Sheep, Ram	209	0	0	0	0	0	209
Feral Sheep, Ewe	112	0	0	0	0	0	112
Axis Deer, Buck	0	0	0	0	0	455	455
Axis Deer, Doe	0	0	0	0	0	284	284
Total	1,047	678	180	35	2	800	2,742
(1985 Sum)	819	714	190	68	0	927	2,718
(1984 Sum)	532	638	0	120	28	802	2,120
No. of Hunter- Trips	4,550	7,730	607	143	65	3,299	16,394
Mammals/Hunter Trip	.23	.08	.29	.24	.03	0.24	0.16

(3) A footbridge on Mohihi-Waialae Trail.

(4) A vista point at the Kawaikoi Stream Trail.

Also 57.9 miles of roads and 64.7 miles of trails were maintained.

Oahu District. On Oahu, 54 miles of trails and 30 miles of forest roads were maintained.

Over 150 permits for hiking and camping were issued to the public. Most of these permits were issued for the Kuaokala/Mokuleia Forest Reserves. Because of the popularity of the area, the access roads were kept open and a section of road improved to alleviate erosion problems and steepness.

Maui District. On Maui 8.6 miles of forest trails and 91.8 miles of forest roads were maintained primarily within the Kula and Kahikinui Forest Reserves where public hunting and recreation are popular. A total of 14.9 miles of forest fences were maintained.

On Molokai, 93.1 miles of forest roads and 5.1 miles of fenceline were maintained. This road provides access to important public hunting areas and to the popular recreation stops at the Lua Moku Iliahi (Sandalwood Measuring Pit) and the Waikolu Lookout and Picnic areas.

Hawaii District. During the past fiscal year, 19 miles of forest roads and 11.4 miles of forest fences were maintained and 1.3 miles of forest fences constructed.

Game Research and Surveys

Birds and Game Mammals. Division biologists conducted research and surveys on game bird and mammal resources from which to base management and regulatory decisions. Aerial surveys were used on Hawaii (mouflon and feral sheep), Lanai (mouflon sheep and axis deer), Molokai (axis deer), and Kauai (feral goats) to obtain population estimates in the public hunting areas.

The game population estimates obtained prior to the public hunting seasons were as follows: (1) 501 mouflon and 170 feral sheep and/or hybrid sheep on or around Mauna Kea Game Management Area on Hawaii; (2) 2,874 axis deer and 1,027 mouflon sheep on the Lanai Cooperative Game Management Area; (3) 1,701 feral goats and 320 black-tailed deer on Kauai's public hunting areas; and (4) 212 axis deer on the Molokai Cooperative Game Management Area.

Game Bird Study. The Erckel's francolin life history study was completed. It describes the population distribution, productivity, habitat characteristics, foods, limiting factors, and behavior of this well established game bird. This study will be useful for management purposes, and to aid in hunter recreational success.

A new game bird habitat improvement study was initiated in the Kekaha Game Management Area, Kauai, to find ways of controlling undesirable vegetation and replacing it with desirable, low maintenance grasses. Several control methods were tried, and experimental planting trials were made with two candidate grass species.

Rock Wallaby Study. The study of rock wallabies on Oahu continued for the fifth year. Preliminary indications were that a population decline was in progress. This was thought to be due to drought conditions and predation from dogs. Adjacent areas were surveyed, but no evidence of recent wallaby activity was found.

Public Hunting

Game Mammals. Statewide, game mammal hunters made 16,394 trips into public hunting areas and harvested a total of 2,742 mammals. The harvest was composed of 1,224 feral pigs, 274 feral goats, 18 black-tailed deer, 166 mouflon sheep, 321 feral sheep, and 739 axis deer.

Game Birds. The game bird season which started in November and ended in January resulted in 10,722 hunter trips for a total harvest of 9,768 game birds. The game bird harvest consisted of: 2,528 California quail, 124 Gambel's quail, 192 Japanese quail, 934 ring-necked pheasant, 218 Kalij pheasant, 1,920 chukar partridge, 608 grey francolin, 499 black francolin, 1,963 Erckel's francolin, 348 wild turkey, 122 lacenecked dove, and 312 barred dove.



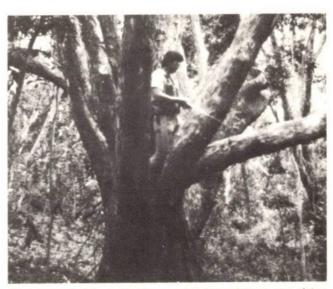
Student summer hire removes weed growth from around a game bird watering device to prevent predation by mongooses and cats on a public hunting area on Molokai.

SUPPORT SERVICES

Support services include scientific research, technology transfer, and telecommunication design and support. The Institute of Pacific Islands Forestry of the U.S. Forest Service provides research assistance to the Division.

Research and Technology Transfer

Multi-Resource Forest Inventory. A final report of the Molokai Multi-Resource forest inventory was published as a joint effort by the Division of Forestry and Wildlife and the U.S. Forest Service. The inventory collects detailed data on tree growth and mortality, forest biomass, wildlife, noxious weeds, watershed health, native ecosystems, and land use trends. This information provides a comprehensive planning and assessment data base for land use decisions involving forest resources.



Forestry technician collecting essential tree data as part of the statewide multi-resource forest inventory.

Federal grants were secured to help the State continue the multi-resource forest inventory work on Oahu and Kauai. The aerial photo interpretation portion of the Oahu project was completed and the Oahu field work and the Kauai aerial photographic analysis were undertaken. Reports for both islands will be published upon completion. Meetings with federal officials are being held to review possibility of funding a similar project for Maui.

Koa Research. A koa (Acacia koa) research project to study the koa growth, mortality, and stand structure in reforestation areas was completed. Koa is the most commercially valuable native Hawaiian forest tree. This study produced the long term growth data for koa which was not available in the past. The data is now being analyzed and will be published in a U.S. Forest Service research document.

Training Assistance. The Division helped organize and teach a two-week forestry management training session for foresters from other Pacific islands including the Federated States of Micronesia, the Republic of Belau, the Marshall Islands, the Cook Islands, Saipan, and Guam.

inaccessible terrain was conducted jointly by the Division and the State Department of Agriculture (DOA). The aerial observers found three areas of banana poka plants totalling 1.75 acres.

In clidemia control, the testing of insects in Trinidad was phased out at the end of the fiscal year. Final testing is to be done at the DOA's Honolulu quarantine facility.

On Kauai, Clidemia hirta eradication efforts were concentrated in the Lihue-Koloa Forest Reserve (Kahili Mt.) and the Nonou Forest Reserve. It appears that the insect Liothrip urichi released at the Kahili site is an effective biological control for clidemia. The Nonou Forest Reserve infestation was monitored and the clidemia plants uprooted along the Kuamoo-Nonou trail.

Beautification and Native Plant Species

Kauai District. Under "A Million Trees of Aloha," Kauai District distributed 148,321 seedlings.

Maui District. Maui District propagated 87,374 trees in the Kahului Tree Nursery mainly for "A Million Trees of Aloha". A selection of 28 species of ornamental trees were propagated for eventual distribution to beautification projects including street tree plantings, park beautification, school grounds beautification, and other projects.

Keanae Arboretum continued to be a popular stop along the Hana Highway. Many visitors and residents come to view and study the excellent collections of Hawaiian taros, bananas, sugar canes, and medicinal plants in a beautiful natural setting.

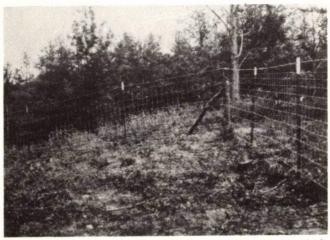
In the fall of 1985, a one acre area containing Hibiscus brackenridgei was fenced off by the Friends of Native Hawaiian Plants. The land is separated from the surrounding pasture land and grazing.

Hawaii District. Over 1,500 mamane seedlings were planted on a 4-acre portion of Mauna Kea to control soil erosion and to improve the native forest.

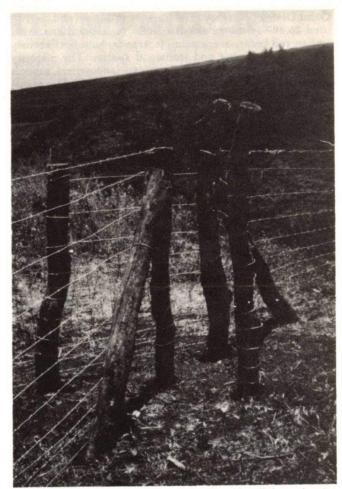
Threatened and Endangered Plant Species

Kauai District. Kauai hau kuahiwi (*Hibiscadelphus distans*) a tree specimen confined to Koaie Valley in the Na Pali Kona Forest Reserve was officially designated as an endangered plant species.

Maui District. A 1,500-foot length fenceline was constructed at the 34-acre Pa'upa'u Plant Sanctuary for the protection of the *Gouania hillebrandii*, an endangered species and the *Spermolepis hawaiiensis*.



Paupau Plant Sanctuary Hog wire fencing with one strand of barbed wire on top.



Paupau Plant Sanctuary "V" type, stockproof, walkthrough gate along Lahainaluna Trail.

Within three exclosures on Molokai, 40 Kokia drynarioides seedlings, between 8 and 18 inches tall, were planted and maintained.

Hawaii District. The remaining three Hawaiian vetch (Vicia menziesii) exclosures were completed and 96 germinating Vicia menziesii seeds were planted and maintained within five exclosures—three in the Kau Forest Reserve and two in the Hilo Forest Reserve. To protect these seedlings from rodent, insect, and other invertebrate damage, trial cages and chemicals are being used.

The one-acre exclosure at Puu Waawaa was planted with 44 kokio (Kokia drynarioides) seedlings. After four months, 18 kokio trees survived.

Three silversword (Argyroxiphium sandwicense var. sandwicense) seedlings planted at the Pohaku Arboretum did not survive. The seedlings are propagated at the Hawaii Volcanoes National Park due to its more favorable climate.

A total of 44 koai'a trees (Acacia koaia) were planted within Koaia Sanctuary by the Sierra Club.

Botanical surveys were conducted on the Kealakekua Bay State Historical Park and the Kamoa Point State Historical Park to determine the existence of threatened or endangered species.

Threatened and Endangered Animal Species

Waterbirds. Annual inventories to determine the populations of endangered Hawaiian ducks, coots, stilts, and gallinules and other waterbirds were made in July and January. The results were:

	July 1985	January 1986
Hawaiian Duck (Koloa)	231	245

Hawaiian Coot	2,294	1,973
(Alae Keokeo) Hawaiian Stilt (Aeo)	1,492	1,002
Hawaiian Gallinule	115	250



Endangered Hawaiian stilt (AE'O) guards nest containing four eggs. State wildlife sanctuaries on Oahu, Maui, and Kauai protect habitats for this and other native waterbirds.

These counts fall within the range of counts conducted over the past 10 years.

A five-year study was completed on the effectiveness of artificial Hawaiian Stilt floating nest. The study provided a successful technique for averting nest losses by flooding.

Seabirds. A total of 1,853 seabirds was recorded during the annual "save our shearwater" program on Kauai during October and November. Ninety percent of the recovered birds were banded and successfully returned to the wild. These birds included 1,653 Newell's Shearwaters, five Darkrumped Petrels, six Wedge-tailed Shearwaters and four White-tailed tropicbirds. A brochure was designed to assist architects, planners and resort managers in techniques to reduce the light attraction problem.

Through a cooperative program between the Division and Sea Life Park, 56 young Wedge-tailed Shearwaters (Uau kani) were taken to Sea Life Park by the public. These shearwaters, most with downy feathers still attached, left their island wildlife sanctuaries and due to disorientation, strong head winds, or general weakness landed on the main island of Oahu. Trained personnel at Sea Life Park examined the birds for injuries, weighed, banded, fed and released the Uau kani when they were determined to be capable of flight.

Palila. Palila counts on Mauna Kea were made during the breeding (July 1985) and nonbreeding (February 1986) seasons. The number was estimated at 1,867 and 2,221 birds, respectively. The counts were made in a joint effort with the U.S. Fish and Wildlife Service.

Wildlife Sanctuaries

The Division manages over 81,000 acres of State Wildlife Sanctuaries. A new sanctuary at Pauwalu Point on Maui was established to protect seabirds and other wildlife. Management of these sanctuaries included periodic inventories, predator control, and the maintenance of fences, water pumps, and public use facilities.

Hawaiian Crow ('Alala) Restoration

Comprehensive field surveys conducted in conjunction with the U.S. Fish and Wildlife Service in Spring 1986 detected only five to eight crows. The captive population in the State's Endangered Species Facility at Pohakuloa, Hawaii, remained at nine birds.

Behavioral studies by Dr. Fern Duvall continued to reveal new information on 'Alala. Many changes in the management of the birds resulted in increased nesting activity in all four pairs. This improved situation was to a large extent due to cooperation from the Army, who decreased training activities that disturbed the crows. Despite improved conditions only three eggs were produced, and these failed to develop.

As mentioned earlier, captive birds will be transferred to Olinda, Maui, for a more suitable rearing environment.

Hawaiian Goose (Nene) Restoration

Studies of Hawaii's State bird, the Nene, continued. Methods were developed for the control of mongoose along with fencing, supplemental feeding, and development of water systems in key areas of Nene habitat on Hawaii. A survey on Maui showed an estimated population of 129 Nene.

Thirty-eight goslings from 12 pairs of captive Nene were reared at the Pohakuloa facility; 17 of these goslings were later given to Hawaii Volcanoes National Park for crossfostering and released with Nene pairs there. Seventeen goslings were released at State Nene sanctuaries and four were retained to add to the captive flock.

Northwestern Hawaiian Islands Management

Through coordination with the U.S. Fish and Wildlife Service and cooperation of the Division of Aquatic Resources, seabird surveys were conducted at French Frigate Shoals. Landing on Nihoa and Necker Islands were not pos-

sible due to heavy, rough seas.

The rodent population on Green Island, Kure Atoll, a State wildlife sanctuary, had increased significantly in numbers creating a threat to populations of seabirds and plants on the island. The increased rat population also became a health concern for the Coast Guard personnel stationed there. A concerted effort to reduce the Polynesian rat (Rattus exulans) population was started this past year with assistance from the Department of Health's Vector Control Branch and the Coast Guard. During the initial phase of the program, the house mouse (Mus musculus) was observed for the first time on the island.

Kahoolawe Management

A cooperative program continued between the State and the U.S. Navy for natural resource restoration. A field survey was conducted to assess the impact of military training activities on wildlife. The need for drastic reduction or elimination of feral goats on Kahoolawe is being emphasized.

RECREATION PROGRAM

The Division builds and maintains hiking trails, access roads, shelters, vista points, hunting grounds, and other recreational conveniences.

District Projects

Kauai District. A new right-of-way was established to the Nonou Forest Reserve from Kuamoo Road (Highway 580), marking the first successful effort to acquire private land needed to complete a trail and open access to a State forest reserve. A new trail was developed and fencing along the right-of-way was installed.

Within Na Pali Kona Forest Reserve, the following proj-

ects were completed:

(1) Two vista points with iron pipe guard rails and an emergency helicopter landing site on the Awaawapuhi Trail.

(2) A vista point and an emergency helicopter landing site

at the beginning of the Milolii Ridge Trail.

DIVISION OF FORESTRY AND WILDLIFE

The Division of Forestry and Wildlife (DOFAW) is responsible for the management of forests and wildlife resources.

SIGNIFICANT ACTIVITIES

A Million Trees of Aloha. This noteworthy project to commemorate the 100th Anniversary of the arrival of the first Japanese contract laborers (Kanyaku Imin) to Hawaii and the 150th Anniversary of the Hawaiian Sugar Planters' Association (HSPA) was culminated with a ceremonial tree planting at Koloa, Kauai on December 6, 1985. The tree planted by First Lady Jean Ariyoshi and Mr. John "Doc" Buyers, President of C. Brewer and Company, co-chairpersons for the project, was the last of 1,027,039 trees planted throughout the State. A substantial number of these trees were propagated at the Kamuela Central Tree and respective district nurseries.



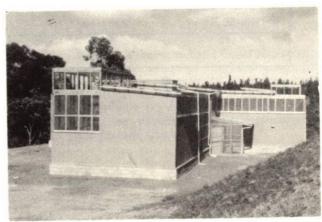
Kauai Mayor Tony Kunimura, First Lady Jean Ariyoshi, and Mr. John "Doc" Buyers (President of C. Brewer and Co.) plant the last of 1,027,039 trees planted throughout the State for the "A Million Trees of Aloha" project.

"A Million Trees of Aloha" won the National Arbor Day Foundation's award for widespread community support of the program in the "Corporation and Institution (State) category. It was also nominated for the "Take Pride in America" Awards Program which recognized projects that foster the "stewardship" of lands and natural resources throughout the United States.

Eucalyptus Harvest for Electricity Generation. A license to harvest some 2,000,000 cubic feet of Eucalyptus saligna and E. robusta issued to BioPower Corporation was terminated and reissued to Puna Sugar Company. The total harvest during the year was 53,220 green tons valued at \$91,116.

Endangered Plant Species. The Fish and Wildlife Service listed six plants during the year bringing the total to 17 taxa now listed as endangered for the State of Hawaii. Listed during the past year were Gardenia brighamii, Santalum freycinetiannum var. lanaiense, Argyroxiphium sandwicense var. sandwicense, Achyranthus rotundata, Hibiscadelphus distans, and Scaevola coriacea.

Endangered Animal Species Facility. A new Endangered Species Facility for the breeding of 'Alala, the Hawaiian crow, is being developed at Olinda, Maui. Phase I of this project included modification of existing buildings and construction of two aviaries. Construction of the aviaries was made possible by State funding for the purchase of materials and supplies and the commitment by the U.S. Army 84th Engineer Battalion to undertake the construction activities.



ALALA (Hawaiian crow) facilities constructed at Olinda, Maui in cooperation with U.S. Army, Western Command. These custom built structures are designed to enhance Alala reproduction capabilities.

PRODUCTS DEVELOPMENT PROGRAM

The Division provides tree seedlings for public and private use, establishes and maintains forest plantations, administers forest product inventories and sales, and provides technical assistance to land managers.

Nursery Production

Kamuela Central Tree Nursery. The total nursery containerized seedlings production was 677,449, of which 337,339 seedlings were grown and distributed for biomass, timber, ornamental, and Christmas tree production, 340,110 seedlings for windbreak plantings, and 2,451 native species seedlings. The biomass, timber and windbreak seedlings included 70,605 young koa.

Kauai District Nursery. Distribution of Kauai nursery grown planting stock was 68,198 seedlings of which 52,635 were ornamentals; 3,217 were native species and 12,346 were timber and windbreak species.

Oahu District Nursery. The nursery produced and distributed 26,887 seedlings of kukui, milo, royal poinciana, Australian red cedar, areca palm, jacaranda, kou, bottlebrush, Norfolk Island pine and ironwood species. The majority were grown for distribution to private landowners, schools and scout organizations. Several species was used for planting, replanting, and erosion control.

Maui District Nursery. The Maui District Nursery produced 87,374 trees primarily for "A Million Trees of Aloha."

Hawaii District Nursery. A total of 56,681 plants were grown and distributed last fiscal year. Timber seedlings for State reforestation planting and windbreak-23,763, ornamental plants-25,201, and native plants-7,717.

Tree Planting and Timber Stand Improvement

Kauai District. Reforestation work accomplished included site preparation of 39 acres (35 acres in the Lihue-Koloa Forest Reserve and 4 acres in the Puu Ka Pele Forest Reserve) and tree planting of 4 acres in the Puu Ka Pele Forest Reserve. Timber stand improvement included 6 acres of replanting, and 2 acres of weeding.

Oahu District. The district planted 2 acres in the Ewa and Kuliouou Forest Reserves and replanted 4 acres of Norfolk Island pines to reestablish 2 Christmas tree orchards in the Waiahole and Honolulu Watershed Forest Reserves. Other accomplishments included 14 acres weeded and 14 acres fertilized within the Mokuleia, Waiahole and Honolulu Watershed Forest Reserves.

Maui District. All tree planting and timber stand improvement work was concentrated in the West Maui Forest Reserve at Kahakuloa. These included site preparation of 11 acres and tree planting of 52 acres.

Hawaii District. Site preparation for timber and biomass plantings totalled 222 acres and tree planting for biomass and timber production totalled 404 acres. A total of 650 acres were fertilized, 44 acres thinned, and 89 acres weeded.

Forestry Assistance. The Division continued to provide technical assistance in forestry matters to private landowners and processors of forest products. Accomplishments included: (1) 109 management plans encompassing 12,255 acres; (2) recommendations for dispersed recreation on 2,277 acres; (3) advice on wildlife habitat improvement covering 248 acres; and (4) watershed improvement work affected 13,341 acres.

In cooperation with several agencies within the U.S. De-



Service forester provides technical assistance in forestry matter to private landowners. Site inspections help in development of management plans to improve forest land capabilities.

partment of Agriculture, the Division developed informational brochures and technical specification for tree planting and wildlife habitat development activities. These activities are recommended under the Conservation Reserve Program (CRP). The CRP was authorized under the Food Security Act of 1985 (Farm Bill) to help farmers prevent or control critical soil erosion.

PROTECTION AND **ENHANCEMENT PROGRAM**

The program objective is to protect, conserve and enhance forest and wildlife resources. Some of the activities included watershed and wildlife habitat protection, fire suppression, erosion control, forest pest management, and the protection and preservation of unique native plant and animal species.

Fire Management

Statewide. A fire team was developed within the Division to provide instructions on fire organization, behavior, suppression techniques and fireline safety to Division personnel as well as to other agencies with fire suppression responsibilities.

Kauai District. The Kauai County Fire Department became the first forestry district to enter into a cooperative fire protection agreement with the Department of Land and Natural Resources.

Under a separate agreement with the U.S. Forest Service (USFS), two surplus fire trucks from the Shasta-Trinity National Forest in Northern California were made available at no cost for rural fire control. One truck is being prepared for use by the Division and the other is assigned to the Kauai County Fire Department.

Maui District. The Maui County Fire Department received a Rural Community Fire Protection grant (administered by the USFWS) of \$6,400. The priority of the grant is for organizing, training, and equipping rural fire companies for improved fire protection.

Hawaii District. The Division fought three fires which burned a total of 22,560 acres. The largest was the Puu Anahulu fire in South Kohala that lasted from September 8 to 23, 1985, burning 19,500 acres and cost the Division approximately \$265,000 to control.

To aid in the Division's wildland fire suppression, six vehicles were acquired through the USFS Rural Community Fire Protection programs. These vehicles will be fitted with 400-gallon pumper units to suppress wildfires in rugged terrain.

Forest Pest Management

Pest management efforts centered around the two forest

weeds: banana poka and clidemia.

In banana poka control, two more shipments of candidate biological control insects from Colombia were received. These represent the fifth and sixth shipments since the start of the project in December 1984. Experiments with the insects are conducted in a quarantine facility at Volcanoes National Park, Hawaii, by the U.S. Forest Service. Work on one candidate biological control disease continued at the U.S. Department of Agriculture's Plant Disease Research Laboratory in Maryland. Both exploration and collection of work for insects and disease are being carried out by a University of Hawaii entomologist and a plant pathologist through a cooperative agreement with the Division.

A new banana poka infestation at Waiakoa, Maui, was surveyed from the air. The survey of the 1.5 square miles of

DOCUMENTS RECEIVED AND CERTIFICATES OF TITLE ISSUED

Fiscal	Do	Documents Received						
Year	Total	Regular System	Land Court System	of Title Issued				
1976-77	169,627	116,998	52,629	8,006				
1977-78	191,307	131,231	60,076	10,133				
1978-79	210,394	145,649	64,745	11,324				
1979-80	228,471	157,008	71,463	12,323				
1980-81	191,115	136,674	54,441	8,599				
1981-82	164,810	121,217	43,593	6,630				
1982-83	187,310	131,701	55,609	8,932				
1983-84	219,238	152,470	66,768	11,107				
1984-85	202,813	140,001	62,812	11,192				
1985-86	236,769	156,938	79,831	11,474				
TOTAL	2,151,470	1,493,861	531,985	107,356				

VALUE OF PROPERTY TRANSFER IN HAWAII (in thousands of dollars)

	Но	nolulu	На	waii		Maui	1	Cauai	State
Fiscal Year	1 of State	Value (\$1,000)	1 of State	Value (\$1,000)	of State	Value (\$1,000)	1 of State	Value (\$1,000)	(\$1,000)
1976-77	71.4	1,264,697	10.0	173,325	14.6	258,798	4.0	74,493	1,771,31
1977-78	67.3	1,743,379	9.1	235,370	19.1	496,684	4.5	116,519	2,591,95
1978-79	65.5	2,426,836	10.6	394,304	18.8	695,768	5.1	190,370	3,709,27
1979-80	68.2	3,089,239	13.1	591,763	12.5	565,806	6.2	282,919	4,529,72
1980-81	63.4	2,512,596	12.8	506,007	14.3	566,960	9.5	374,451	3,960,01
1981-82	69.5	2,011,748	10.6	306,301	12.2	353,045	7.7	221,538	2,892,63
1982-83	62.9	1,903,777	9.7	293,964	21.0	637,263	6.4	192,462	3,027,46
1983-84	69.0	2,474,132	14.4	514,705	12.3	441,485	4.3	155,003	3,585,32
1984-85	68.3	2,540,240	9.3	346,374	17.5	649,113	4.9	183,929	7,719,65
1985-86	67.4	2,623,227	10.1	392,623	13.9	541,935	8.6	335,561	3,893,3

LICENSES
FRESHWATER FISHING

TYPE	HAWAII	MAUI	F	KAUAI	OAHU	S	TATEWIDE
Resident Number	2	2		703	5,450		6,157
Amount	\$ 8	\$ 8	\$	2,546	\$ 19,635	\$	22,197
Non-Resident				15	45		60
Number Amount			\$	15 110	\$ 321	\$	431
Tourist				93	104		197
Number Amount			\$	337	\$ 374	\$	711
Juvenile		1		149	1,358		1,509
Number Amount	\$ 3		\$	215	\$ 1,945	\$	2,163
Senior Citize				56	196		254
Number Amount	1	<u>1</u>					
Duplicate				2	20		23
Number Amount			\$	3 1	\$ 10	\$	11
TOTALS							0.202
Number Amount	5 \$ 11	\$ 8	\$	1,019 3,209	\$ 7,173 22,285	\$	8,200 25,513

^{*} Fractional amount (less than a dollar) excluded

LICENSES

HUNTING

TYPE		HAWAII	MAUI		KAUAI		OAHU	S	PATEWIDE
Resident							2 200		11 606
Number		3,915	2,244		2,237	^	3,300	\$	11,696 83,757
Amount	\$	28,044	\$ 16,139	Ş	16,025	Ş	23,549	Ą	03,131
Non-Residen	t								422
Number		223	142		13		44		422
Amount	\$	3,193	\$ 2,043	\$	186	\$	634	\$	6,056
Senior Citi	zen						117		445
Number		140	139		49		117		445
Amount									
Duplicate					50		26		213
Number		49	69		59	^	36	\$	105
Amount	\$	25	\$ 34	\$	29	\$	17	٠,	103
TOTALS			¥						
Number		4,327	2,594		2,358		3,497		12,776
Amount	\$		\$ 18,216	\$	16,240	\$	24,200	\$	89,918

^{*} Fractional amount (less than a dollar) excluded

LICENSES AND PERMITS

MISCELLANEOUS

TYPE	STATEWIDE
Game Bird Farm Number	32
Amount	\$ 32
Albarc	, 0=
Aquarium Fish	
Number	185
Amount	
TOTALS	
Number	217
Amount	\$ 32

Forestry

Prohibited entry - closed watershed Collecting forest items without permit (Maile) Animals (failure to control dogs in forest reserve - Nonou Mountains) Firearms or other weapons (possession firearm in forest reserve)	5 9 2 3
TOTAL FORESTRY VIOLATIONS	19
Fish and Wildlife Sanctuary	
Prohibited entry - Manana Island Prohibited activity - Paiko Wildlife Sanctuary (fishing)	6 3
TOTAL FISH AND WILDLIFE SANCTUARY VIOLATIONS	9

CITATIONS AND ARRESTS

Type of Violations	Number
Firearms	
Alien in possession of firearm Place to keep firearm Alteration of identification mark prohibited (.22 caliber rifle)	1 6 1
TOTAL FIREARM VIOLATIONS	8
Natural Area Reserves	
Prohibited activities in Natural Area Reserves - Ahihi/Kinau (fishing) Prohibited activities in Natural Area Reserves - Ahihi/Kinau (taking	11
lava rocks)	2
TOTAL NATURAL AREA RESERVES VIOLATIONS	13
Miscellaneous	
Harasssment (wasiiwana)	1
Promoting detrimental drug - 2nd degree (marijuana)	3
TOTAL MISCELLANEOUS VIOLATIONS	3

LICENSES AND PERMITS

COMMERCIAL MARINE FISHING

TYPE	HAWAII	MAUI	KAUAI	OAHU	STATEWIDE
Commercial Marine					
Resident			400	1 101	2 756
Number	764	451	420	1,121 \$ 28,025	2,756 \$ 68,900
Amount	\$ 19,100	\$ 11,275	\$ 10,500	\$ 20,025	\$ 00,900
Non-Resident				22	
Number	24	1	5	94	124
Amount	\$ 1,200	\$ 50	\$ 250	\$ 4,700	\$ 6,200
Ouplicate					
Number					
Amount					
Special Marine Product					
Number	22	11	3	106	142
Amount	\$ 140	\$ 35	\$ 18	\$ 378	\$ 571
Commercial Bait					
Number	7	6 \$ 6	\$ 2 \$ 2	19	34
Amount	\$ 7 \$ 7	\$ 6	\$ 2	\$ 19	\$ 34
NWHI *					
Number				29	29
Amount				\$ 29	\$ 29
TOTAL			422	1 200	2 005
Number	817	469	430	1,369	3,085
Amount	\$ 20,447	\$ 11,366	\$ 10,770	\$ 33,151	\$ 75,734

^{*} Northwestern Hawaiian Islands (Leeward Islands)

^{**} Fractional amount (less than a dollar) excluded

CITATIONS AND ARRESTS

Type of Violations	Number
Commercial fishing license (no commercial fishing license) Failure to submit Fish Dealer's Report Failure to display Freshwater fishing license Sale/possession undersize Opihi	3 2 3 5
Sale/offer of sale of fish minimum size (under size - less than 5" Aholehole Minimum size (papio - less than 7") Octopus (possession of octopus less than one pound)	21
Samoan crab (possession of Samoan crab less than 6" across carapace) Unlawful taking of sea mullet during closed season Unlawful fishing with spear/firearm (speared lobster)	22 6 12
Unlawful fishing with spear/firearm (spearing Manini less than 5; Raid less than 9")	3
Taking O'ama over bag limit Taking bait fish without license Taking crustacean with eggs (lobster)	5 7 1
Taking crustacean with eggs (Kona crab) Hinana and O'opu taking prohibited (taking O'opu with trap) Permit to take/possess/sale shellfish (oysters)	1 2 5 4 5
Restrictions on taking nehu/Iao Restricted fishing activity - Pokai Bay (netting) Restriction on taking/possession/sale of introduced freshwater fish (take)	5 4 6
Take/kill/sale of crustacean (Spiny lobster) closed season (take) Spiny lobster or ula (spiny lobster less than 3½" carapace) Nets and traps (illegal trap ½" mesh)	10 1 37
Fishing with fine mesh net Fishing in certain waters (fishing with gill net - Waikaena Canal) Fishing in certain waters (fishing with throw net - Waikaena Canal)	2
Fishing in certain waters (fishing with throw net - kapad canal) Fishing with thrownet - Wailoa Pond Possession (use fine mesh thrownet	3 1 31
Prohibited activities - Waiakea Pond (boating after 7:30 pm) Prohibited activities - Waiakea Pond (no life preserver on boat) Prohibited activities - Waiakea Pond (using crab nets)	2 2 2 3 2
Prohibited activities Hanauma Bay (taking of fish) Prohibited activities - Honolua MLCD (fishing) Prohibited activities - Manele-Hulupoe MLCD (fishing with thrownet) Prohibited activities - Pupukea MLCD (restriction on use of nets) Prohibited activities - Wahiawa PFA (no freshwater fishing license)	6 1 3 11
Prohibited activities - Waniawa PFA (No Freshwater Fishing Freeze, Prohibited activity - Wahiawa PFA (use of thrownet) Prohibited activity - Nuuanu Freshwater Fish Refuge (no fishing) Prohibited use of electro-fishing device	1 7 1
TOTAL FISHING VIOLATIONS	250

Hunting

Hunting without license	44
Hunting during closed season	5 2
Hunting without permit - special season Hunting in closed area	6
Hunting birds during closed season	2
Hunting of gamebirds in violation of Exhibit I (Hen pheasant)	1
Failure to carry/display hunting license	1
Permitting illegal use of hunting license No entry permit	3
Unlawful night hunting	5
Unlawful game mammal hunting - non hunting day	9
Safety zone (possession of firearm in safety zone)	4
Prohibited hunting in forest reserve Prohibited hunting (hunting Blacktail Deer - closed season)	1
Prohibited hunting (firearm in prohibited area)	1 2
Use of tags (hunting goats without tags)	
Conditions & restrictions - failure to check in	11
Conditions & restrictions - removal of live game	1
Conditions & restrictions - no colored garment Conditions & restrictions - prohibited hunting of game mammal	9
Conditions & restrictions - loaded firearm in vehicle	12
Conditions & restrictions - illegal firearm	6
Conditions & restrictions - possession of firearm on non-hunting day	1
Conditions & restrictions - possession of firearm in Wailua GMA Conditions & restrictions - possession of firearm in archery area	7
Conditions & restrictions - possession of handgum in public hunting area	1
Conditions & restrictions - possession of rifle (.30 caliber) in game	
bird hunting area	1
Designation of public hunting area (hunting game mammal (pig) in bird	2
hunting area Dogs prohibited	11
Taking over bag limit of gamebird	1
Bag limits, open season, and hunting days (hunting game bird in game	
management area - non-hunting day)	2
TOTAL HUNTING VIOLATIONS	155
State Parks	
Complete with such a marginit	51
Camping without a permit Closed area - Magic Island	36
Closed area - Honolulu Stadium Park	1
Closed area - Waimanalo State Park	1
No special use permit (parking of equipment) Wailoa Park	12
Prohibited operation of vehicle off road Prohibited commercial solicitation (sale of ice cream) Magic Island	3
Prohibited solicitation in State Park	1
Prohibited operation of vehicle - reckless speeding	1
Prohibited activity (cutting trees) Wailua State Park	4
Animals (dogs in park) Firearms, other weapons (possession of cross-bow) Kalalau	
Possession of alcohol within State Park	1 2 1
Residence on premises (residing on premises)	1
Sanitation (littering on premises)	1
Swimming, nudity (nude sun bathing)	
TOTAL STATE PARKS VIOLATIONS	118

FIELD ACTIVITIES

Activity	Number
Patrols & Investigations: Vehicle (Miles) Foot (Miles) Boat (Miles) Horseback (Miles) Swimming (Miles) Stakeouts Stakeout (Hours)	665,793.00 4,830.90 1,133.00 117.00 1.00 356.00 974.75

FIELD CONTACTS MADE

Field Contact	Number Contacted	Citations	Arrests	Penal Summons	Warnings
Commercial fishermen	3,592	2			38
Marine sport fishermen	36,001	50		1	152
Freshwater fishermen	4,017	40			34
Hunters	8,903	81	7		138
Fish & Wildlife resource	users 2,574				11
State parks users	148,603	64	2		2,111
Forestry users	7,597	32	3		144
Wildlife sanctuary	162	8			3
Natural area reserves	297	2			8
Hunter safety	45				
MICD	414				12
Land Management	327				7

INSPECTIONS MADE

Types of Inspection	Number Inspected	Citations	Arrests	Warnings	
Commercial fishing crafts	1,101	10		129	
Sport fishing crafts	1,522	3		228	
Saltwater fishermen	15,680	100	8	209	
Freshwater fishermen	4,046	28		406	
Hunters	5,988	73	18	175	
Fish markets	2,764	4		26	
Fish peddlers	36				
License agents	214				
Aquarium fish facility	77	1		2	
State parks	12,410	45		1,260	
Forest reserves	3,360			159	
Tea houses/restaurants	42				
Wildlife sanctuary	173				
Marine life cons. district	406	5			
NARS	126	11		11	
Land Management	94				

COMPLAINTS AND INVESTIGATIONS

Type of Complaints and Investigations	Number	Hours
Fishing Hunting Forestry State parks DLNR Regulation No. 4 Miscellaneous	363 102 87 253 439 217	828.00 512.75 294.50 592.50 1,050.25 561.50

PUBLIC INFORMATION

Types of Information	Number
Talks made to groups Informational/printed material	36 1,527

Disposition of Pending Cases

Island	Bail Forfeiture	Juvenile Authorities	Cases Dismissed	Cases Pending
Hawaii	\$50		1 special contribution \$50 42	47
		1(8 hrs. comm. service) 1(10 hrs. comm. service) 1(C&R ordered to attend Hunter Safety Course)		
Maui (Lanai & Molokai)	\$525	1(25 hrs. comm. service) 10(C&R)	21	22
Kauai	\$815	8 (C&R)	30	11
				212
Oahu	\$375	1 (C&R)	40	212
TOWN T	\$1,765	1(8 hrs. comm. service)	133	292
TOTAL	ŲĮ,,os	1(10 hrs. comm. service) 1(25 hrs. comm. service) 19 (counseled & released) 1(counseled & released/	1 special contribution \$50	
		ordered to attend Hunter S	Safety Course)	

Island	Convictions	Fines	Suspended Fines
Hawaii	44	1(\$200 or 4 days jail in lieu of fine) 2(\$100 or 2 days jail in lieu of fine) \$710	\$100 susp. 6 mos.
Maui (Lanai & Molokai)	48	\$2,615	
Kauai	72	\$3,885	
Oahu	181	\$5,015	
TOTALS	345	1(\$200 or 4 days jail in lieu of fine) 2(\$100 or 2 days jail in lieu of fine) \$12,225	\$100 susp. 6 mos.

Island	Split Fines Fines/S-Fines
Maui (Lanai & Molokai)	\$500/400 suspended \$1000/60 days jail; 50 hours community service; 5 years probation \$2,500/6 months jail; 250 hours community service; 5 years probation \$7,500/6 months jail susp.; 5 years probation; must leave State 2(\$400/\$200 susp. 1 year; No Hunting 1 year) 2(\$50/25 hours community service) \$100/\$50 susp. 1 year \$50/10 days jail suspended 6 months \$200/\$100 suspended 6 months
Kauai	6(\$250/\$175 suspended 6 months) 4(\$200/\$150 suspended 1 year) 2(\$50/\$30 suspended 1 year) \$200/\$175 suspended 6 months \$300/\$100 suspended 1 year \$200/\$100 suspended 1 year

Oahu \$50/10 days jail suspended 1 year \$50/S/S 3 months \$45/probation 6 months \$500/\$400 suspended TOTALS \$350/S/S 6 months \$1,500/\$910 suspended 1 year \$50/S/S 3 months \$45/probation 6 months 2(\$400/\$200 suspended 1 year; No Hunting 1 year 2(\$50/25 hours community service) \$50/10 days jail suspended 6 months \$50/10 days jail suspended 1 year \$1,000/60 days jail; 50 hours community service, 5 years probation \$2,500/6 months jail; 250 hours community service; 5 years probation \$7,500/6 months jail; 5 years probation; must leave State Jail Sentence Suspended Sentence Island 4(8 hours community service in lieu of \$25 fine) 1(1 year) Hawaii 5(225 hours community service in lieu of fine & jail) 1(5 years) 3(DAGP - 30 days special contribution \$100) 1(10 years) 2(DAGP - special contribution \$25) 1(special contribution \$25) 1(S/S 1 week)

Maui (Lanai 2 (DAGP 6 months) 25 hours community service & Molokai) 5(1 year suspended) 80 hours community service Kauai 3 months suspended Oahu 9 months suspended 13 months suspended 10 (6 months suspended) 1(1-3 weeks suspended) 1(2-3 months suspended) 1(3-6 months suspended) 1 year suspended 4(30 days suspended) 6 years; serve 1 year; \$52 contribution

2(8 hours community service)

6(1 year suspended) 1(1 year)
1(13 months suspended) 1(5 year)
1(9 months suspended) 1(10 year)

1(3 months suspended)
1(3-6 months suspended)
1(2-3 months suspended)
1(1-3 weeks suspended)
10(6 months suspended)

1(S/S 1 week) 4(30 days suspended)

TOTAL

121 hours community service

2 (DAGP 6 months)

6 years; serve 1 year; \$52 contribution

4(8 hours community service in lieu of \$25 fine) 5(225 hours community service in lieu of fine & jail)

3(DAGP - 30 days; special contribution \$100)

DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT

The Division of Conservation and Resources Enforcement (DOCARE) is responsible for enforcement activities of the Department of Land and Natural Resources. The Division, with full police powers, enforces all State laws and rules involving State lands, State parks and historic sites, Natural Area Reserves, forest reserves, aquatic life and wildlife areas, Conservation Districts, State shorewaters and shores, as well as county ordinances involving county parks. The Division also enforces laws relating to firearms, ammunition, and dangerous weapons.

Investigation and Enforcement

In fiscal year (FY) 1985-86, a total of 1,461 complaints were investigated by the Division. These complaints involved fishing, hunting, forest reserves, State parks, Natural Area Reserves, Conservation Districts, and other miscellaneous activities.

A total of 3,839.50 hours were expended in the

investigation of complaints.

The Division assisted County police departments and the Federal Drug Enforcement Administration in the combat against marijuana cultivation by involvement with "Green Harvest" and other marijuana eradication operations. Arrests were effected when marijuana cultivation were detected on the island of Hawaii. On Kauai, arrests were effected when marijuana possession was detected.

The Volunteer Conservation and Resources Enforcement Officers (total of 50 statewide) accounted for 8,700 hours of patrol time with the regular officers. The Volunteers were also involved with monthly meetings and training sessions.

Conservation Enforcement Training

The regular and volunteer enforcement officers attended training sessions which were scheduled throughout the year. Among the subjects covered were Factual Report Writing, Ethical Conduct, Use of Mace, Criminal/Civil Liability, First Aid and CPR. The firearms instructors from each island also attended a refresher class held on Oahu. Semi-annual firearms qualifications were also conducted and sessions on the new laws enacted by the past legislative session. The U.S. Attorney's office conducted classes on Federal forfeiture procedures.

Public Information and Education

A variety of information and education services are

provided to the public. Among these are posters identifying certain marine animals and the closed season periods, a digest on the restrictions on size and harvest methods of marine life and areas where fishing is restricted. These posters and digest are distributed through DOCARE's offices and by the enforcement officers at various fish markets, sporting goods stores, and boat ramps.

The various newspaper agencies, radio stations, and television stations were contacted for press releases on the open and closed seasons on fish and wildlife, amendments to conservation laws and rules, and schedules of hunter safety

education classes.

The DOCARE officers appeared before various schools, youth and community organizations, and even summer work crews on Lanai to explain their responsibilities and enforcement authority.

DOCARE also participated in the various county police recruit training classes to present its responsibilities and

enforcement role.

Hunter Safety Education

The State's Hunter Safety Education Program was awarded the Award of Merit, Class AA, from the International Association of Fish and Wildlife Agencies for achievement in the field of Hunter Education for 1985.

A total of 392 students were certified for successfully

completing the hunter safety education course.

Volunteer hunter safety education instructors spent a total of 1,522 hours in providing instruction and services towards the program. Included in the services provided were manning of information booths at gun shows, and programs such as National Hunting and Fishing Day and

county fairs.

"Teaching Techniques in the Hunter Safety Education Program" was the theme of a two day workshop attended by the Volunteer Instructors which was conducted with the cooperation of individuals from various organizations. Among these were Mr. Liberato C. Viduya, Department of Education (State of Hawaii); Mr. Rick Lemon, Federal Aid Hunter Education Planning Specialist; Mr. Vernon Von, Department of Personnel Services (State of Hawaii); Mr. Lawrence Hirai, Environmental Specialist, U.S. Army Command; and Mr. C. Red Hasay, Chief of Program Training, Fish and Wildlife, Alberta, Canada.

DIVISION OF CONSERVATION & RESOURCES ENFORCEMENT

ANNUAL REPORT 1985-1986

CITATIONS, PENAL SUMMONS, ARRESTS AND DISPOSITIONS

Island	No. of Citations	No. of P/Summons	No. of Arrest	No. of Charges	Bail Forfeiture	Cases Dismissed	
Hawaii	28 Parking 115			115	\$200	14	
Maui (Lanai & Molokai)	2 Parking 76	1	31	108	\$ 50		
Kauai	21 Parking 177		5	182	\$145	4	
Oahu	889 Parking 205		7	212	\$ 50		
TOTAL	573	1	43	617	\$445	18	
	940 Parking	15					

Island	Convictions	Fines	Split Fines Fines/S-Fines	Suspended Sentence
Hawaii	19	\$ 950		6(8 hrs. community service) DAGP - 30 days/\$50 special contribution
Maui (Lanai & Molokai)	18	\$1,900	\$400/\$300 susp.	
Kauai	\(\)	\$1,680	2(\$500/\$475 susp. 1 yr.) \$175/\$125 susp. 1 yr.) \$ 50/\$100 susp. 1 yr.) 2(\$150/\$ 75 susp. 1 yr.) \$ 50/\$ 25 susp. 6 mos.	1 (DAG-3 mos., contribute \$50 General Fund) 2 (nets forfeited)
TOTAL	76	\$4,530	\$400/\$300 susp. \$50/\$ 25 susp. 6 mos. \$1,625/\$1325 susp. 1 yr.	6(8 hours community service) DAGP - 30 days/\$50 special contribution DAGP - 3 mos. contribute \$50 General Fund 2 nets forfeited

State of Hawaii Department of Land & Natural Resources Honolulu

DIVISION OF AQUATIC RESOURCES

COMMERCIAL FISH LANDINGS BY SPECIES, STATE OF HAWAII - FISCAL YEAR 1985

Sea Landings by Species	Sea	Landin	gs by	Species
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SPECIES	LBS LANDED	LBS SOLD	VALUE	SPECIES	LBS LANDED	LBS SOLD	VALUE
Tuna (Unclass)	135	122	\$ 152.50	Nohu	4,024	3,734	7,664.15
Aku	3,202,283	3.147.438	2,802,959.12	Nunu	289	231	142.26
Ahi (Yellowfin)	1,963,593	1,884,108	3,016,194.40	Oililepa	1,286	1,235	943.15
Ahipalaha	311,890	309,464	231,228.65	Oio	8,578	7,758	5,469.83
Ahi (Bigeye)	166,326	165,999	381,294.83	Omaka	506	457	1,260.00
Kawakawa	11,270	8,145	10,072.71	Oopuhue	43	37	55.95
Swordfish (Unclass)		525	1,062.00	Opelu	213,921	204,794	319,203.22
Striped marlin	67,457	61,084	91,634.27	Pala	44	38	23.00
P.B. marlin	412,548	364,334	285,445.56	Pakii	14	9	9.70 62.70
Black marlin	8,624	6,162	6,553.92	Pakuikui	120	105	
S.N. spearfish	28,904	25,772	43,684.67	Palani	21,023	19,936	14,747.85
Broadbill	16,379	16,255	33,706.02	Panuhunuhu	207	197	111.41 203.73
Sailfish	2,457	2,076	2,479.67	Panunu	136	136	
Mahimahi	291,658	276,207	891,087.81	Paopao	36	36	69.98 26.23
Ono	305,853	289,506	703,179.78	Pauu	17	17	1,565.08
Hapuupuu	87,842	86,722	140,946.04	Pualu	2,014	1,922	
Kahala	63,788	56,130	42,198.11	Ee1	2,424	2,176	629.65
Kalikali	23,512	21,256	44,965.73	Eel (Black)	120	120	54.21
Omilu	7,431	7,051	11,538.28	Eel (White)	744	713	542.69
	357,531	345,930	1,063,194.10	Uhu	27,728	26,683	30,812.64
Opakapaka	97,431	94,453	251,436.37	Ukikiki	6,323	5,826	11,963.46
Uku	50,220	46,965	126,878.07	Uouoa	513	437	724.66
Ehu	177,807	172,799	631,377.14	Upapalu	33	23	15.50
Onaga	66,343	60,043	95,380.88	Uu	36,977	35,282	78,396.55
Ulua	15,098	13,602	28,348.12	Uukanepou	34	34	63.61
Weke-ula	2,857	2,483	1,606.92	Walu	925	745	471.75
A'awa	486	355	408.68	Weke	48,304	45,898	58,741.51
Ahaaha	3,940	3,584	5,952.56	Ulua kihikihi	364	315	572.69
Aholehole	266,730	241,448	343,603.77	Opah	15,250	15,250	12,706.15
Akule	156	142	168.11	Malu	2,013	1,941	2,915.74
Alaihi	4,727	4,348	10,710.98	Saba	31	22	37.31
Amaama	1,451	1,312	1,213.85	Opelu mama	33	18	15.63
Awa	3	3	7.50	Tilapia	91	10	20.00
S. Mullet-Engeli	822	689	497.03	Taape	50,617	47,216	35,942.28
Awaawa	5,465	5,054	7,381.33	Toau	20,478	18,108	15,078.66
Aweoweo	320	257	105.91	Roi	508	504	1,381.19
Ea		17,152	26,331.68	Keokeo	250	247	170.76
Hahalalu	17,644 383	248	288.10	Manchon-pomfret	7,475	7,402	10,207.65
Hanui	56	56	44.80	Pcopaa	689	569	800.04
Hihimanu	69	69	36.25	Po'ou	953	897	1,214.09
Hilu		247	154.48	Ulua-Buta	31,769	31,676	35,269.77
Hinalea	290	148	341.98	Ulua-Dobe	2,933	2,909	3,908.76
Humuhumu	406	96	91.00	Ulua-Gunkan	389	389	483.35
Iheihe	96	4,016	4.187.47	Ulua-Menpachi	372	336	361.37
Kaku	5,102	7,964	4,479.49	Ulua-Paapaa	4,411	4,219	7,935.30
Kala	8,901	3,926	4,351.36	Ulua-White/Black	16,778	15,969	28,060.29
Kamano	4,466	4,466	4,456.82	Moana Kali-aoweke	1,608	1,488	6,526.39
Kawelea	4,842	4,522	4,791.82	Crab (Unclass)	650	365	395.00
Kole	4,703	10,431	42,987.30	Crab (Kona)	21,918	17,478	57,932.20
Kumu	10,937		223.58	Crab (White)	7,620	7,552	25,048.07
Kupipi	206	205 63	105.77	Crab (Moala)	759	755	1,982.03
Kupoupou	63	7,001	20,472.71	Crab (Samoan)	510	405	1,461.95
Laenihi	8,088		363.90	Shrimp (Opae)	156	143	624.28
Lae	459	356	75.21	Shrimp (Laevigatus)	101,914	101,802	207,066.57
Lauwiliwili	238	226	62,709.42	Lobster	310,974	308,813	2,308,921.24
Lehi	25,610	24,147	64.57	Slipper lobster	193,160	189,638	882,065.57
Maiii	91	91	265.40	Нее	20,742	15,588	34,358.27
Maiko	628	618	2.48	Muhee	11,530	10,672	14,096.02
Malolo	1 57/	1,544	1,896.93	Opihi	13,512	12,730	30,547.60
Maomao	1,574		12,377.14	Oopu	268	258	1,419.00
Manini	9,472	8,125	11.301.11	Wana	141	15	.82.50
Mano	12,230	10,628	85.00	Namako	32	32	80.00
Mano kihikihi	168	100		Limu	16,207	15,407	28,500.8
Moano	5,873		12,501.04	Coral (Stony)	2,820	2,820	4,360.00
Moi	1,154	1,062		Coral (Rose)	750	750	750.00
Moelua	14		35.00	Coral (Black)	3,128	88	1,408.00
Mu	3,725		6,924.49	Misc.	4,321	4,018	5,399.9
Naenae	5,076			misc.			
Nehu	24		15.08 5,594.94	TOTAL	9,409,931	9.048.661	\$15,845,908.3
Nenue	8,968	/ 4/4	7 744 44	10106	., , ,		

POND CATCH BY SPECIES Fiscal Year 1984-85

	LBS.	LBS.	
SPECIES	LANDED	SOLD	VALUE
Ulua	570	530	\$ 1,232.05
Aholehole	400	382	1,088.30
Amaama	9,503	9,286	24,702.06
Awa	561	538	670.44
Summer Mullet	124	124	402.00
Awaawa	349	349	352.60
Kaku	389	241	617.45
Lae	2		
Moi	22	8	4.00
Oio	8,714	8,453	8,692.25
Palani	15		
Pualu	1,514	1,514	1,500.33
Taape	2		
Toau	777	777	2,425.55
Tilapia	3,232	3,231	6,867.60
Crab (Unclass)	10		
Crab (White)	196		
Crab (Moala)	52		
Crab (Samoan)	76	71	275.05
Оори	1	1	2.25
Shrimp (Opae)	1	1	4.50
Misc.	6,848	6,848	13,429.01
TOTAL	33,358	32,354	\$62,265.44

AQUARIUM FISH CATCH STATISTICS FISCAL YEAR 1985-86

-	Number Permits	Number Caught	Number Sold	Value
Non-commercial	124	(Non-commer	cial catch repor	rts not required)
Commercial	61	148,745	146,947	\$242,417*

^{*} Average cost per organism = \$1.65